

2650	10701	A	3575	2765	3138	YSLKSGSVMPPALFFWLRIALAMQALF WFHMNFKVVFSNSLKKVIGSFMGMALN L*ITLGSMAIFTILPTHEHGMFFHLFVSS FISLSSGL*FSLKRSFTSLVSWIPRYFILFE AIVNGSSL
2651	10702	A	3576	265	663	GRASGVVRSRWWCDLAGFRGEAADLH GVCYSRLRSPAGFTQWIHQGSRWSCLP VPRRAPALLALGWSMGWAPPQPLAWV LSPSLPGAGSADWLLQVRGPPSPRPPGTP AGPPAPCAALVPARVSPSTLPS
2652	10703	A	3577	82	361	LRSPAGFTQWIRTGAAGGAACQFRAVRP ALLSPWVVDGTGRRGAGGGAYRGGSG RTGAHGTGGGSGMAGCRSRAVPRRKAA KTRPCEVQKRQHNVNLYFPVETKAQT VKWFVLA*ASPCSVGSCAARASPISAAP CSTAPSPIDHPRAEECWAHGTLAGSSTC SPGADPLGEASWAPE
2653	10704	A	3578	806	934	KILSSKFPFSFLPSYVCTSSFP*THPSIIST SSSSHSVPTN
2654	10705	A	3579	1034	1393	AVTLTGKVCSTPEASETTNPPGGTNNNS RRASLRAATLTVKVRSTPRGSAASFFKS VRPRTHQFRTQYSPRMSKIRDCSRSCFI SFLASWRIICLL*VLISLCAW*RYRLFWP LPSS
2655	10706	A	358	4627	5052	LSTKAPRKDTLFNKWCWENWISICRRLQ LGSYLLPY*KINQKWIKGLNDRSETMKL LKENIGEMLKNIGLGKDFMVKTSKA*AT KQKIGRWDYIKLKICTAKKT/IRVKRPTV DGNNIFKLSNRGLISRVYKEHNSTVKKK KK
2656	10707	A	3580	529	750	REFRVGVASADPAFGAAGRPCPQQG*G A*HTGQWLRRVYVWPQQCQPTGVALDF SPGLSCLPAGQGSGPAARHA
2657	10708	A	3581	2	343	HAVFFISIRSFMFFFKLVILVSNSSKLFSTF LVSLHWWVRTCSFSSEEFVITHFLKPTSVN SSNSFSVQFCSLAGEEL*SFGGEEAFWFL EFS AFLHWFFLIFMDLSTFGLCCC
2658	10709	A	3582	289	422	
2659	10710	A	3583	189	309	
2660	10711	A	3584	587	801	
2661	10712	A	3585	76	1740	SLLTAASSFQPQLKQSSHLSPSGWDYR LRMTQNKLLKCSKANVYTEVPDGGWG WAVAVSFFFVEVFTYGIKTFGVFFNDL MDSFNESNSRISWIISICVFLTFSAPLAT VLSNRLGHRLVVMMLGGLLVSTGMVAA SFSQEVSHMYVAIGIISGLGYCFSFLPTVT ILS QYFGTRRSIVTAVASTGECFAVFAF APAIMALKERIGWRYSLLFVGLLQLNIVI FGALLRPIFIRGPASPKIVIENRKEAQY MLENEKTRTSIDSIDSGVELTTPKNNVPT HTNLELEPKAD\MQQVLVKTSRPPSEKK APLLDFSILKEKSFICYALFGLFATLGFFA PSLYIIPLGISLGIDQDRAAFLSTMAIAE VFRIGAGFVLNREPIRKIYIELICVILLTV SLFAFTFATEFWGLMSCSIFFGFMVGTIG GLTFHCLLKMMSWALQKMSSAAGVYIF IQSIAGLAGPPLAGLLVDQSKIYSRAFYS CAAGMALAAVCLALVRPCKMGLCQRH HSGETKVVSHRGKTLQDIPEDFLEMDLA KNEHRVHVQMEPV

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2662	10713	A	3586	1	2472	GFVFLLLAPLSRLEFHKSRGLKNVFEGL EAEECFYKVHLDGGELEEVRPDAETT THQGRVSQEKHQALGCKWPKLCGDALC VILSAPSPIDHPKAEECRRRARDWQAAPP AAPVRDPLGEASWAPESGQQMKEAAEL GVSCMGPDLEKLTLYEVKLRLOQCKAA QRPLGCTLLAIQGTLYQRIFSPLTQPELV NGKGWHLTQESLSQNGSLEFLTSEPHSP NPNEGSSRRQSLHTNANNMAFASEQFPN LPSGSGSRGFPGRARVLHLDCQNCQRLT AGPAQLQGSRAANRRKALVSPSSSVARE DGFAEEMVFTYGIKTFGVFFNDLMDSF NESNSRISWIISICVFVLTFSAPLATVLSN RFGHRLVVMLGGLLVSTGMVAASFSE VSHMYVAIGHISAIMALKERIGWRYSLLF VGLLQNLVIFGALLRPIFIRGPASPKIVIQ ENRKEAQYMLENEKTRTSIDSIDSGVELT TSPKNVPTHNLLELEPKADMQQVLVKTS PRPSEKKAPLLDFSILKEKSFCYALFGLF ATLGFFAPSLYIPLGISLGIDQDRAAFL STMAIAEVFGRIGAGFVLNREPIRKIYIEL ICVILLTVSLFAFTFATEFWGLMSCSIFFG FMVGTIGGLTFHCLLRMMSWAL/QKMS SAAGVYIFIQSIAGLAGPPLAGLLVDQSK IYSRIFYSCAAGMALAAVCLALVRPCK MGLCQHHSGETKVVSHRGKTLQDIPE DFLEMDLAKNEHRVHVQMEPVVRRRFA AAGPAGLGAAGSDAFAPAREGPERRAG YSGPAAACFDFTAAPKREQRGPLSLVG LEM
2663	10714	A	3587	323	1303	STLYLPAMDTNQEEIPDLLALGTSAWSS TLAALEEFSLPLHCGSPFLGWSRPELAP SACREVWREKPEWELGLRTVLAGQCEF RVGVGSGDSTRSSWPPLAPGNEGLSTR ASSCGGCTGSPSRAGPPVLCISQCALAA FPRGRARGLOPAMPEPPPLRGLLCSPEP PRLVPPPAPGHPVPLTTQGLRSTGKTHR DWQAAPPAAPVRDPLGEASWAPESANL VGKWRFTVSSSGTANAPISTLSKQTTGL YQSAGCGWGQNLGAKYRA/LCRPVKSD *HGRQTKDTGVRLSGKGLSNPN*LFRVG TVGSHRPHFTYMDGLASGV
2664	10715	A	3588	1	3552	
2665	10716	A	3589	375	646	KKSLLSINSRLQLVMKSGKYVLG\YKQT LKMIROGKAKLVILANNCPLSGNNIEL GTACGKYRVCTLAIDPGSDIIR\SMPE QTGEK
2666	10717	A	359	1	366	KKQIFLELISIYSRVAGYK\NTQKSVAFLY NSNKQLNL*IK/DTMPFILAC/NK*KHLPL NLTK*VQEIEGNYDTFMK*IED/DKQRN ISSW*KRFIKMPILPNLIYRYNAFPVKIS ESYLVDI
2667	10718	A	3590	75	335	LRILKFLSCSLSLGWGSPSLRQEDGGR KRRRKKSLESINRLQLVMKSGKLLPGG TSQTLKMIROGKAKLVILANN/CGPALR KSENEYCYVWLKTGC/HHPLTVGNNE LGATA\CGKITYRVLHTGLFIDPG*LLTSF RKACPEQTC*KMVAAKEDEKSRWSRST LGSNSLWKSGLLPGGTSQTLKMIQTRQ SEMWSFSLTTGPSFEEI
2668	10719	A	3591	1	2580	
2669	10720	A	3592	1	1386	

2670	10721	A	3593	2	1419	RPPGIRAPRQLHPAAGRPDASARPRFRP TVLLHDPFQLSFPPPLSYPSVFPVAVRV LPQRSGDYRAAGMPQLSGGGGGGGGDP ELCATDEMIPFKDEGDPQREKIFAEIVNP EEEGDLADIKSSLVNESEIIPASNGHEVA RQAQTSQEPYHDKAREHPDDGKHPDGG LYNKGPSYSSYSGYIMPMNMNDPYMS NGSLSPPIRPTSNKVPVQPSHAVHPLTP LITYSDEHFSPGSHSHIPSDVNSKQGMS RHPPAPDIPTFYPLSPGGVGQITPPLGWQ GQPVYPITGGFRQYPSSLSGDTSMSRFS HPMIPGPPGPHTIGIPHPAIVTPQVVKQ DHPHHSSDLMHVKPQPEQRKEQEPKRP PTKKPLNAFMLYMKEMRANVVAECTL KESAAINQILGRRWHALSREEQAKYYEL ARKERQLHMQLYPGWSARDNYGKKKK RKREKLQESASGTGPRMTAAI
2671	10722	A	3594	59	435	STCPAPQSARVQWCNLSLQPPPTPTPR SSNSPASASQIAGUTGVRHHTQLIFVFLV GDGGFHCVGSGWVSNCWPSGWRPLWP HLFLGFHKDLEVVGFLVFASISFRSWRW DLKNSSVLTHFFK
2672	10723	A	3595	54	442	
2673	10724	A	3596	360	1023	GQGRLPERGYLEAGVYRICGRQSRHED GTHRGAQVIEQRRKWLPALGFQPIILQL CGKRVPAPSRASTGQPQASRAWSGPLP HPQCGSDIRLRVRAEYCEHGPALQGV SRRPQALARQLDVFGQATAVLRSDLGS VVCDFKSELSYLDADFWDYLSGALLQA LRGVFLTEALREAVGREAVRLVSVDEA DYEAGRRLLLMEEEGRRPTEAS
2674	10725	A	3597	3	370	QMYCVFNREDACRY/GS/AIGVLAFLAS AFFLVVDAYFPQISNATDRKYLVIDLLF SGVLAFLAYQRYKAGVDDFIQNYVDPT PDPNTAYASYPGASVDNYQPPFTQNAE TTEGYQPPPVY
2675	10726	A	3598	1	1356	
2676	10727	A	3599	3	706	GGSGGDGDMESGAYGAAGGSFDL RRFLTQPVVARAVVLVFAVIVFSCIY EGYSNAHESKQMYCVFNREDACRYGS AIGVLAFLASAFVVDAYFPQISNATD RKYLVIDLLFSALWTFWVFGFCFLT QWAVTKPKTVLVGADSVRAITFSFFSI FSWGVLASLGYQRYKAGVDDFIQNYV DPTDPNTAYASYPGASVDNYQPPFT QNAETTEGYQPPPV
2677	10728	A	36	2	424	
2678	10729	A	360	241	583	NGPPFFFFFEMEFSLLLPRLECNGAISAH RNLRLPGSSDSPAAGLL*SQVAGITRL RHHD*LILY/FLVEMRFHRVG*AGLELLT SGDPPSSASQGAGITGMSHSAGHYGKIF
2679	10730	A	3602	1	171	RILMAINGKVFDVTKGRKFYGPVKYHH VGKLLTAGEEPAVYSDEEEKDESARK ND
2680	10731	A	3603	3	253	LSLQEFGTSFAGRDASRGLATFCLDKEA LKDEYDDLSDLTAAQQETLSDWESQFT K/LLKEGEEPTVYSDEEEKDESARKND
2681	10732	A	3604	3	701	PARHSLAQREEKVASSGSLPSAAQPLLSE IMAAEDVVATGADPSDLESGLLHEIFT SPLNLLLGLACIFLLYKIVRGDQPAASG DSDDDEPPPLPRLKRRDFTPAEVLRRFDG VQDPAPYSWAINGKVFDVTKGRKFLT GPEGPYGVFAGRKCIQALPTFLDKEA LKDEYDDLSDLTAAQQETLSDWESQF TFKYHHVGKLLKEGEEPTVYSDEEEKD ESARKND

2682	10733	A	3605	3	678	KRLPKMAEVQVLVLGDGRAHSSLGRLA/ AIVAK\QVLLGRKVVVVVRCEGINISGNF YR\NKLKYLGFPPPSGMNTNPSR\GPYHF G\APSRILLAGTVRGM\PHKTKAEAKAA LDRL\KVFDGIP\PPYGQEKSGMVVPA LKVVRL\KPTRKFCLIWGR\LAPEVGWK YQAVTATLEE\KRKREKPRFHYRKKENSI MRL\RKQAREETWRKKIDKYTEVLKTHG LLV
2683	10734	A	3606	114	353	
2684	10735	A	3607	104	342	
2685	10736	A	3608	211	241	NFNRRGGGLAAGRRKKPDWLDSTLNS*PS H
2686	10737	A	3609	37	116	
2687	10738	A	361	654	942	CHACNPQHFGRRPQVDHLRSGV*DQPG QHGETPSLLK\QKLAGHGGVHL*S*LLR RLRQENRLNLGGGCGSEPRSHHCTPAW VTE*DSVSRKKKK
2688	10739	A	3610	104	516	ALSSRGVMAEYGTLLQDLTNNITLEDLE QLKSAFKE\DPSEKSEEITGSAWFSFLE SHNKLDKDNLSYIEHIFEISRRPDLLTMV VDYRTRVLKISEEDELDTKLTRIPSAKKY KDIIRLPSEEEIKL\APPPKKA
2689	10740	A	3611	569	838	PTVLWEPPSFPPPPQGIPIHSG/PDTLTGR RRASPSGLCYSENGGLTEEGSTRPPAH/S PGATVSSPPPPPPSSSLPCCLGNRHFDD RV
2690	10741	A	3612	268	356	
2691	10742	A	3613	489	605	QLQVCYCT*RPYSGTRCGVSNVQLLCS LLSHLCCSAS
2692	10743	A	3614	391	561	
2693	10744	A	3615	367	855	GARRQAHTMALK\RINKELSDLARDPPA QCSA\GPVG\DDMFH\WKATINGDLMDK PIFKGGVFFLTIHF\PTDYPFKTPKVAFT TRIYHPNINSNG\ICLDILRSQWSPALTIS KVLLS\ACSL\CDPN\DDPLVPEIARVY KTDRDKYNRISREWTQKYAM
2694	10745	A	3616	1002	1480	MLLLKTTERFEVSVCMACTYVSNLGGK QRSVSFLASGLMRVSTGPELRLHHSFVL TGDVGRRICRLVGLFTKGDTSKRVAHP FSPGP\CFLLCDLAR\VGSSPKINRVPHFT RTQTSTQRSCVFWQRCSLVGPFQVTV FTMYFHSLRSISRFSFG
2695	10746	A	3617	223	415	
2696	10747	A	3618	1	858	
2697	10748	A	3619	144	1339	DPEQPDMEQPWPPPGPWSLPRAEGEAE ESDFDVFPSSPRCPQLPGGGAQMYSHGIE LACQKQKEFKSSVACKWNLAEAQOKL GSLALHNSESLDQEHAKAQTSIRTEGN GKKNWRQKEEAL\RQREKMCLWSTDAI SKDVFNKSFNQDKRKDTEDDKSEFSM QKYEQKIRHFGMLSRWDDSQFLSDHP YLVCEETAKYLILWCFHLEAEKKGALM EQIAHQAVVMQFIMEMAKNCNVDPGRC FRLFFQKAKAE EEGYFEAFKNELEAFKS RVRLYSQSQSFQPMTVQNHVPHSGV GSI GLLESLPQNPDYLQYSISTALCSLNSVH KEDDEPKMMGHCIWVKTA EAKCYFVT GKGGTWAIFLDTFMGVLALYFCSVFDG RERV LKCFVNFF
2698	10749	A	362	1	2322	
2699	10750	A	3623	44	420	
2700	10751	A	3624	20	421	
2701	10752	A	3625	1	346	LRPQSAQSSFPSPGSPDVQLATLAQRV KEVLPHVPLGVQIRDLAKTGCVDLTITN LLEGAVAFMPEDITKGTQSLPTASASKF/ PRQESLQERKQALY EYARRRFTERRAQE

					AY
2702	10753	A	3626	162	461
2703	10754	A	3627	39	260
					DCKPVARPSTKAKTDQSGPFLSLLPHRY LSLSLTLRSSSPESMTCWMEGREKEKSA SQ*VTTTFRASMSSYTA
2704	10755	A	3628	1	2160
					FRPGAPEAAVMELSSWPGPERLFDShRL PGDCFLLLVLVLLYAPVGFCLLVLRFLGI HVFLVSCALPDSVLRFRVVRTMCAVLGL VARQEDSGLRDHSVRVLISNHVTPFDHN IVNLLTTCSTVSESEADSATVRFPGAQLK APLSPLAFPMEDTEALPLTPILYPTCQFFF FIFLNIFLLAFSSPGSQPLLKSPQAFVC WSRGFMEMNGRGEVLVESLKRFCSTR LPPTPLLLFPEKKATNGREGLLRFSWP SIQDVVQPLTLQVQRPLVS/VGECVLNRE SLGLEGEISHPWPWLRPHLMPSPTVSD ASWVSELLWSLFVPFTVYQLVAKELGQT GTRLTPA\DKAEHMKRQRHRLRPQSAQ SSFPPSPGPSDPVQ/IWATLAQRVKEVLP H/VGPLGVIQRDLGMKGKGGPTLGDGHE EKWVVKEETKTGCVDLTITNLEGAVAF MPEDITKGTQSLPTASASKFPSSGPVTPQ PTALTFAKSSWARQESLQERKQALYEYA RRTFPQVTRSHIISTALEDPCLSKISTTCQ RGNSLRSCQRATMTSQPLRLAEEYGPSP GESELAVNPFGLPFSSRYELLKQORQA LPIWAARFTFLEQLESNPTGVVLVSGEPG SGKSTQIPQWCAEFALARGFQKGQVTVT QPYPLAARSLALRVADEMDLTLGHEVG YSIPQEDCTGPNTLLRFCWDRLLQEVA STRGPGKLGAGTR
2705	10756	A	363	8453	9757
					APCLLGWSLPSRSAKTYAYLFSPSRMP VYPKWVGADHADDIQYVFGKPFATPTG YRPQDRTVSKAMIA YWTFNFAKTG*DVG *VQGGGPQPRRASHHEALFPHLPVEGLW ASHLTSPCIGIHVCLMRVTRGRAPSPCTC TASAQYAVRGMVPRASSEGGDGSVQV ESRASAPWESPAPAQPLLTLQDPNMGD SAVPTHWEPTYTENS GYLEITKKMGSSS MKRSLRTNFLRYWTLTYLALPTVTDQE ATPVPTGDSEATPVPTGDSETAPVPPT GDSGAPPVPPTGDSGAPPVPPTGDSGAPP VPPTGDSGAPPVPPTGDSGAPPVPPTGDS GAPPVPPTGDSGAPPVPPTGDAGPPVPP TGDSGAPPVPPTGDSGAPPVPTPTGDSETA VPPTGDSGAPPVPPTGDSEAAPVPPTDD SKEAQMPAVIRF
2706	10757	C	3631	44	340
					MKCSQPXRCHFQSD FQKCAPCPRAQTH WLEPPGRVQTISSMRNAQKGFADSIRLW RLPASGVGVVVSPEGAGDPSHLLDPPGH SAPYSPAPRQLSRV*
2707	10758	C	3632	2037	2426
					MKCSQPPRCHFQSD FQKCAPCPRAQTH WLEPPGRVQTISSMRNAQKGFADSIRLW RLPASGVGVVVSPIQTQEVAPEGMYLV GSSSGTLGGCRALTQVFLSSLGCVCA CACACLCFSLWAHQDVSS*
2708	10759	A	3633	184	9818
					IEEPRDTRLQVCSGVHIVCLDKFKMRKH RHLPLVAVFCLFLSGFPTTHAQQQADV KNGAAADIIFLDSSWTIGEEHFQLVREF LYDVVKSLAVGENDFHFALVQFNGNPH TEFLLNTYRTKQEVLSHISNMSYIGGTNQ TGKGLEYIMQSHLTKAAGSRAGDGVPPQ VIVVLTGDHSGDKGLALPSAELKSADVNV FAIGVEDADEGALKEIASEPLNMHMFNL ENFTSLHDIVGNLVSCVHSSVSPERAGDT E

2709	10760	A	3637	312	805	GPQAGSSPEILLPEDNSLRWAGAGCHTQ DSATTVTASWAPLCAGAGREEDGTPCV CLGRSARPKLVFGRPLRTSALRPGACIP HGLLCYPREPVDFRPGSGRAWPPRSPSP/ CQDPRPSRSAPGSEPGW/CPDPPAPRLV TLGRASPHLTLPRAAPPPCRWRP
2710	10761	B	3639	199	286	XSELESALQMEPAAFQALYSAEKPKELED EHLVFFCQMGKRGQLQAHAGPESWIHW GSQLRWSL*
2711	10762	A	364	10	548	FRLVLSRLEGIGAILAH*NLCLLGSNDSP ASATRVAGITGRHHAPLIFVFLVEMGF RHVGQAGHKLLISGDPPA/SASQSAGITG VSH/ARLAALS NF*GLGQVPTPLKQATLL SLDTSPSLPAIFFLFFF*DRFS\SVTQAEV QWGDHCSLHP*PTGLKDPPASASRLGTT RTRHHSR
2712	10763	A	3640	754	1082	GMVIIICLGAPRTQPFQAQLPNLSAKLL AFPSTLSTPPVSELESALQMDQPAFQAL YSAEKPKEDEHLVFFCQMGKRGQLQAT QLARSLGYTGARNYAGAYREWLEKES
2713	10764	A	3641	113	737	AGPDSFCNFSVCPSSTSTAWILVLAQFLL SPTLLPSRMLTVALLALLCASASGNAIQ ARSSSYSGEYSGGGGKRFHSHGNQLDGP ITALRVRVNTYIYVGLQVRYGKVWSDY VGGRNGDLEEIHLHPGESVIQVSGKYKW YLKEAGYLVPTKGPFLSFGKSKGPSFN AVPLHPNTVVRFISGRSGSLIDAIGLHWG CFHTTSCSRC
2714	10765	A	3642	1724	1818	
2715	10766	A	3643	1	894	RGESRVLWSELEGEAGGAGGWASSLNA RMDNRFATAFVIACVLSLISTIYMEGSIG TDFWYEYRSPGQENSSDLNKSIDEFIS DEADDATYNDALEFRYNGTVGFLRRVY SPYPKTLHWVLAHHERTESFDVVTIKCV SFTLATEQFMEKFVDPGK/HTNSRGLDLL RTYLWRCQFLLPFVSLGFDVLWGALIG LCA\CICRSLYPSIATGILHLLAGLCTLGS VSCYVAGIELLHQKLELPDVSGEFGWS FCLACVSAPLQFMASALFIWAHTNRK EYTLMKAYRVGMSKKPACF
2716	10767	A	3644	323	898	
2717	10768	A	3645	816	1171	LFKHFWGPVANWGLPIAANDMKKSPG DYSVGRMTFALC\CYS\TFMEILPYKVQ PSGTWASCFACHGTNEVRPSFIQGEGLI PNTRMDLKRASGINQWGKGKNKVFECD SLCPGCC
2718	10769	A	3646	205	369	
2719	10770	A	3647	3	451	CSGAGAEPANPRSPRSLVPSLESTSTSV PPAPGTMATDSWALAVDEQEAASG AVVKTNANAETDEEEKEDRAAQSLN KLIRSNLVDNTNQVEVLQRDPNSPLYSG KSFEELRLKPQLLQGVYAMGFNQPSKIQ ENALPLMLAEPY
2720	10771	A	3648	1	186	
2721	10772	A	3649	2	261	SSANNISILGAFRSVTKWLS*THPL*FFCQ CLCLSPTYELALQTGKVIEQMKGFPPEL KLAYAVRGNKCEYGRRLNSEQGRGLG V
2722	10773	A	365	252	934	LCASLRLLPAPMLSLSHRISPHWPVGVH YGC*GGRSGSDIGSCRETGLCRGFSPGCI KTSTSPWAPAG*APSTGPSGQETCTAHS PFIPAPA*AQGLKF*GVTESICAGAAGTA GGTETAVSAGSPAGQAQPGGAGQSLSA GSQMA*GSDHPGPIWQTC*SVQGAFLD G*GG*LHPHP*GPATLPEGGGGVCPAA KNASGATREVPVLQAVHAPGATWLRP P
2723	10774	A	3650	1	2613	

2724	10775	A	3651	3	550	LCSSR/DEKFKALCNLPG/AITMAQAMIF CHTRKTAISWLAELSKEGHQVALLSGE MMVEQRAAVIERFREGKEKVLVTTNVC ARGEQRTCPTWSARLGVPGPIRARNPCI QGSRMVSGRWVGLVTLFLSRRDCLDFP EVVRTHTCQVRWLMPIPRQENCLNPG DRGCSEPRMCYSTPSWVTE
2725	10776	A	3652	1	1571	CRGAGAEPAANPRSPRLVPSLEYTSTSV PPAPGTMATDSWALAVDEQEAAAESLS NLHLKEEKIKPDTNGAIVKTNANAECT DEEEKEDRAAQSLNKLIRSNLVDNTNQ VEVLQRPNSPLYSVKSFEELWLKPQLS QGVYAMGFNRPSKIQENALPLMLAEPQ NLIAQSQSGTGKTSPLVLAMLSRIVEPI RPDTPQCLCLFPTVEAGGFKQGKVEQM GKFYPELKLAYAVRGNKLERGQKISEQI VIGTPGT/VGLNWCFQLKFDPPKKIKVFV LDEADVMIATQGHQDQSIRIQRMLPRNC QMLLFSATFEDSVWKFAQKVVPDPNVIK LKREEETLDTIKQYYVLCSSRDEKFQAL CNLYGAITIAQAMIFCHTRKTASWLAEE LASKEGHQVVMLSGEMMVEQRAAVIERF REGKEKVLVT/TPNLCSRGIDVDQVSVVI NFDLPVDKD/GNPDNETYLHRIQRTARF GKARGLAVNMVDSKVHSMNILANRIQEH FNKKIERLDTDDLDEIEEN
2726	10777	A	3653	3	421	
2727	10778	A	3654	209	435	
2728	10779	A	3655	126	775	APAKVRTAQEDRDTFSSQRTRWKEQNTI DNMALLGPKGLLFLAAFIITSDWIPLGV NSQRGDDVTQATPETFTEDPNLVNDPA ATDETVLAVLADIAPSTDDLASLSEKNT TAIECWDEKFTCTRLYSCASGPVNQMH FIQLCFHPVLRMYIVQPRENCSSVLVC KGTPKPMKDELCRQMAGLPPLGRLRRP QLLPDFPPCENVDLQRPNGL
2729	10780	A	366	169	457	SLEVS LGDHFQKCRFLEKRERFWKGMFS FCSMAVSGFLAAGAGLKPRSG/WH*VFH SPRRSWTENFKFORDEVASPLGAWRAL TKEKGGAQPLEGL
2730	10781	C	3660	162	425	MVGPSLHAGXXXVYIPRFLYIRSWLPCIF FSGGVTVGNIGRQLAMGVPEKPIVIESSK PXILESXGRFLEENLXLVDYXKGLSFFLK *
2731	10782	A	3661	89	308	
2732	10783	A	3662	2	454	
2733	10784	A	3663	570	1418	PMPLRHDHFWSCSAHSAARRRGPPRAIA AGLAAKVGEMIIIVFVSGPSLMAVLSASD ADPAPRGRSAVKSGPYPGSPYPNTWHHS LMQKSLVLFVSGEVLALVLNLLQIQRV TLFPEEVIATIFSSAWWVPPCCGTAPAD VGLLYPCIDSHLGEPHKFKERMGOVSMR CIAVFVGINHASAKLDFANNVQLSLTLA ALSGLWWTFDRSRGLGLGVTIAFLAT LVTQFLVYNGVYQYTSPDFLYIRSWLPC IFFSGSVTVGNIGRQLGYGVFLEKPHSD
2734	10785	A	3664	195	462	RIFSMTSGRLRWRCTWRPATALWSASLR LGTSSMHPSPRSISLP/PVHVHTHNSGKE VLGLQVQRSRSGTGPAQSAGSGAVQG GNWCIF
2735	10786	A	3665	12102	12327	
2736	10787	A	3666	535	992	RIFSMTSGRLRWRCTWRPATALWSAISL RLGTSSMHPSPRSISLPLSMMLSPLPS NTRGLSPTALVRSPINSEHATSCPRHLH WRCRAPLRSPSPLGRLPGATPGVPSHVH THNSGKEVLGLQVQRSRSGTGPAQSQA GSGAVQGGNWCIF
2737	10788	A	3669	76	419	

2738	10789	A	367	186	370	QIRETS GTGT*YTSASQSAGIEVSHHAR QMFQFYSQKYTLPNCCCL*ILMFKIKFFL TQK
2739	10790	A	3670	71	350	AFIPAMAELIQKKLQGEVEKYQQLOKDL SKSMSGRQKLEAQLTENNIVKEKRYES QLRDLERQSEQQRETLAQLQQEFQRAQA AKAGAPGKA
2740	10791	A	3671	334	1191	GLLPHLGPRVQRLPRLSLSTLACGLTRGP HPFLLPQIHHLTRIVGIGGTFDVSKLPFL SSPDLSKMSGRQKLEAQLTEYNIAKEV RDWDLWGEEGPVLAMVLITYVPSLHQE LALLDGSNVVFKLLGPVLVKQELGEARA TVGKRLDYITAEM*VFIPPPCAAPCDASE PLE*RC*TIAEQLSIVAPSPVPPTLSFPF*P PFFSLPWISRFSTYLFASFSTLHSESY*FLP FCLSPLSLLSKRYESQLRDLERQSEQQRE TLAQLQQEFQRAQAAKAGAPGKA
2741	10792	A	3672	210	617	AFIPAMAELIQKKLQGEVEKYQQLOKD LSKMSGRQKLEAQLTENNIVKEELALLA DGSNVVFKLLGPVLVKQELGEARATV GKRLDYITAEIKRYESQLRDLERQSEQQR ETLAQLQQEFQRAQAAKAGAPGKA
2742	10793	A	3673	3	266	
2743	10794	A	3674	31	500	ARVTAAVSAAAVAKRVWRDGFDCSGY YSLTTILLVQPTKRPEGRTYADYESVNE CMEGVCKMYEEHLKRMNPNGPSI/TH NTTSQLFDFIDDLADLSCLVYRAIDTQT YQPYNKDWIKDEDPTVLLSSGKAQQA REIIVVGSHWGGWGGAWDTGV
2744	10795	A	3678	1	134	
2745	10796	A	3679	162	437	RRGLFPAGPGPRQEPSRASSPMPSELRN IKD\FLTARRKDAKS\VIKKNKDNVAK FKVRCRYLLHPWSSPDKEKAELK\KQS LPPRFGK
2746	10797	A	368	150	799	QC*DPETSETV*EKLRAGRHORCCHGGQ SCFDKSATRALPPPRKWRHRGTRCAATK RTRLGEMAVLGP*E*RQPEEFPTTSILA EPTVLSRRKCRPSEKRGSA TEKFGATSA VTENPPLGAAGERANKTL/RCCHRD TDF RTPASDGERRRSHTGEPINRSLAMRMGK GGSIGTENRADWAGPGCKVCESCS/RVL HLCVYGSHHRIWHMEGYQHMLV
2747	10798	A	3680	60	216	
2748	10799	A	3681	505	794	NVVECLFKDALPQLSADRFLASSILLGDL GVVEVHFVSNSLTGEELWHLLRSTSLGI ASPPIHEVPFLEV DGDRTKTQVFPLTNLH VRAHASAHAS
2749	10800	A	3682	685	1484	LRLTFPEFSHTKVRTMSLFPSPPLLLLSM VAASYSETVTCEDAQKTCPAVIACSSPGI NGFPKDGDRDGTKGEKGEQGLRGLQ GPPGKLGPNGPGSPGPGKQKGDGP KSPDGDSSQAASERKALQTEMARIKKW LTFSLGKQVGNKFFLTNGEIMTFEKVKA LCVKFQASVATPRNAAENGAIQNLKEE AFLGMPDEKTEGQFVDLTGNRLTYTNW NEGEPNNAAGSDEDCVLALLKNGIQWND SPCASTSHLAVCEFP
2750	10801	A	3683	427	751	
2751	10802	A	3684	31	558	EFVPHSEKMLYDQAQLAVAYLYAFQLS GDEFYSDVAKGILQYVARSLSHRSGGFY SAEDADSPPERGQRPKEGAYYVWTVKE VQQLPEPVLGATEPLTSGQLMKHYCL TEAGNISPSQDPKGETCRARMLLDRPVL RWELTAARFGLDV/EKAVRTLLNTGLEK LFQARKHRPKP

2752	10803	A	3685	3	399	KCVCLLTAFSERMRRVPVALPEMVRALS AQQQTLKQIVI/VWRPSGQRTPKALVQC VHSVYIPNKVLILADGDPSSFLSRQLPFLS TLRRLEDQATAYVCENQACSVPIITDCE LRKLLHPLTCPYPLGWGR
2753	10804	A	3686	2	2238	NVAAMLGARAWLVRVLLPRAGAGLA ASRRGSSSRDKDRSATVSSSVMPAGGK GSHPSSTPQVRPNRLIHEKSPYLLQHAYN PVDWYWPWGQEAQFDKARKENKPIFLSVG YSTCHWCHMMEEESFQNEEIGRLSEDF VSVKVDREERPDVDK VYMTFVQATSSG GGWPMNVWLTPNLQPCVGGTYFPED GLTRVGFRVLLRIREQWKQKNNTLLEN SQRVTTALLARSEISVGDRQLPPSAATVN NRCFQQLDEGYDEEYGGFAEAPKFPTPV ILSFLFSYWLHRLTQDGSRAQQMALHT LKMMANGGIRDHVGGGFHRYSTDRQW HVPHFEMLYDQAQLAVAYSQAFQLSG DEFYSDVAKGILQYVARSLSHRSGGFYS AEDADSPPERGQRPKEGAYYVWTVKEV QQLLPEPVLGATEPLTSGQLMKHYGLT EAGNISPSQACELADKGHSPQDPKGELQ GQNVLTVRYSELTAAARFGLDVEAVRTL LNSGLEKLFQARKHRPKPHLDSKMLAA WNGLMVSGYAVTGAVLGPRQLINYAT NGAKFLKRHMFVDASGRLDADLLHR/H LGGLWSTATPPCWGFLEDYAFVVRGLL DLYEASQESAWLEWALRLQDTQDRLFW DSQGGGYFCSEADWGAGLPLRLKDAQ DEAEPSANSVSAHNLLRLHGFTGHKDW MDKCVCLLTAFSERMRRVPVALPEMVR ALSAQQQTLKQIVICGDRQAKDTKALGA VRPLCLHS
2754	10805	A	3687	5	188	
2755	10806	A	3688	132	341	GFTSFISRLSCLSFCLLLET/CPVTCWCWE APRCNQKCTDPAARRPDPQTASQDRLR CAPCTCHQPLASR
2756	10807	C	3689	4	204	MCFQRKSYFHIQTLYCPLICISALRYSTG PAPAMWKCHTAPVQKDWLTPITLISS PNFLTINL*
2757	10808	A	369	1200	1678	RYKLLSYRKPEAIEQKENIPFQNLRSFS KNLHFWK*SPKETSRLYHECLQLNSSCLI LTLAYPVQII/CHLFLDEPGRMSDQORRAQ NVPEMGFHHVGG/ACLNLSSTRPASAS QSARIIEVSHHARQMFQFYSQKYTLPC CKL*ILMFKIKFFLTQKQN
2758	10809	C	3690	57	209	MEVXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXGRLFLGPL*
2759	10810	A	3691	363	424	
2760	10811	A	3692	2	264	KFSLIKLRKENFPTARICRLVYPLYPLKIF IFPKALNFCREVGPICPPPKKIGSFPIPKV AFNRPLRKKIIPSPALNWGPVRVP
2761	10812	A	3695	2	201	GRVGSDSCQRQQGDTKRRRLSSYPWR RRQRWRRRRVTSSRRKPQFLRQRQRPRQ ARRRWRATRFA
2762	10813	A	3696	31	445	EKAVVTSAASSLVYTVYTAQPAPRSFHP FCSTWSAKEPNTTAGEGGSTNECQCLSA /CPGANCPGLGTLKSPQNCPSSSLPRPPLP ACRGSYESVWARLLQSVHAIGQRRRES WSPKLYWVHPPQEVVGAFTFLFLV
2763	10814	A	3697	73	404	AYSRTSSLSTMNQTAILICCLIFLTLGI QGVPLSRTVRCISISNQPVNPRSLEKL EIIPASQFCPRVEIATMKKKGEKRCCLNP ESKAIKNLLKAVSKERSKRSP
2764	10815	C	3699	250	495	
2765	10816	B	37	44	307	MVAVSCRQRPTSRPAWGKVGAVHVR MCAEALERMFLSFPTTKTYFPHFDLSHG FCPLRATGKKVADALNAVAHVGRHA

						QRRCPP*
2766	10817	A	370	1	1107	MTLEATHLLLRVLLVLLASGGSLFQSP VKSILGVAVTVVLLLLLALLNRYLQK ARGRARKPYTEDVSVDKKTETWEWAR GEGESYHVYDDVQKEKTTDRMIRSSM CVHKINTSVSMCAQETPNSSKAKLGQK IPVQKGDEILHKALCFPWLGKGGMEPL RLILLFVTELSGAHNTTVFQGVAGQSL QVSCPYDSMKHWGRRKAWCRQLGEKG PCQRVVS\STTCGLLSFLRRWNWEHSHS QTIPWGGTLTITLRNLQPHDAGLYQCQS LHGSEADTLRKVLVEVLADPLDHRDAG DLWFPGLDRASRMPMWSTASPLRVAR EGR*WEEKPRRSPTRDQPSLHTCHLATR TPCSALARDYSA
2767	10818	A	3700	226	854	RVPGTLMMSGIALSRLAQRKAWRKDH PFGFVAVPTKNPDGTMNLMNWECAIPG KKGTPWEGGLFKLRMLFKDEYPSSPPKC KFGPPLFPNCVTSGASCL\SFLEEDKDW RPAITIKQILLGIQELLNEPNIQDPAQAEA YTIYCQNRVEYEKRVRAQAKKFAPSCRS SLEPSRTWAVLLLSLRPQVSISVLRHFLC VYMAFCLCCCLE
2768	10819	A	3701	813	1637	TCQGIASRLAQEYKAWRKDHPFG\YN AVPTKNPDGTMNLMNWECAIPGKKGT PWEGGLFKLRMLFKDDYPSSPPKICKFE PPLFSPRIVYPSGAKCACPSLEEDQRTW RPSPTIQTFRLLRNYRNFLKWPNINQDP SFQAEAYTIYCQNRV\ESYEKRVPTKP RKFCAPHKQRPCGNRQKERDWFGQELV YNIFCKSKVCSHTMTSHLGGVGRAPSSH CPPRGVRSRIRLNCVPSIQGSSFLRCFCIF GLLCKTRLFILMSSISTAVKL
2769	10820	B	3702	236	362	KQEPQIPCQGGKDAAVLQGSQPSLAGIR TTRLRDPSKKWPKGX*
2770	10821	A	3703	1	808	TPPFLAMAPALLLIPAAASFILAFGTGV EFVRFTSLRPLLGGIPESGGPDARQGWL AALQDRSILAPLAWDLGLLLLFVGQHS MAAERVKAWTSRYFGVLQRSLYVACTA LALQLVMRYWEPIPKGPVLWEARAEPW ATWVPLLCFVLHVISWLLIFS\FLVFDYA ELMGLKQVYYHVLGLGEPLALKSPRAL RLFSLRHPVCVELLTVLVVPTLTGTDR LLAFLLLTYLGLAHLGLDQQLR\YLRVA QLQRKLHLLSRPDGEAE
2771	10822	A	3704	221	1728	GQAGCSDTMGSCCCLNRDSVPDNHPT KFKVTNVDDGVELGSGVMELTQSELV LHLHRREAVRWPYLCLRRYGYDSNLFSP ESGRRCQTGHGIFAFKCSRAEEIFNLLQD LMQCNSINVMEEPVIITRNSHPAELDLPR APQPPNALGYNVSSFSNGCPGEGPRFSA PQRLSTSSLRHPSLGEESTHALIAPDEQS HTYVNTPASEDDHRRGRHCLQPLPEGQ APFLPQARGPDQRPQVFLQPGQVKFVL GPTPARRHMKVCQGLCPSLHDPHHNN NNEAPSECPAQPKCTYENVTGGLWRGA GWRLSPEEPGWNGLAHRRRAALLHYENL PPLPPVWESQAQQLGGEAGDDGDSRDG LTPSSNGFPDGEEDETPLQKPTSTRAAIR SHGSFPVPLTRRRGSPRVFNDFRRPGPE PPRQLNYIQVKLKGWGGDRPKGPQNP SPQAPMPTTHPARSSDSYAVIDLKKTV MSNLQALPRDDGTARKTRHNSTDPL

2772	10823	A	3705	1143	1849	PAILSPNLDDLNFVSRAVPTLAPSAPSA SSSPARIPAATRQGRSPRIPPAPSNEASP APGRPRVPGAA\PRFPKPTIQASGADRA VDCGILKLQKSPARLARPRWPRRPSKRF WSAAGSVEEQPKPPKAP/PAKSPEQSPQL SVLPLATITPQAYGASFEKMKNLKTTRG GRSRWHFFPNVIPQAPSLKWGFQTSAS SAEVFHVDRSLASHKMGPGRRPRSLW APPFWNPRH
2773	10824	A	3706	130	360	SLPKKKNPDLHGFGVGFYQTFKEKIPASS SSNKF/PQDIYEASITL/TPKPDQDFRKKEN CSSVSLIIFPEIINKILEN
2774	10825	A	3707	46	292	DQASSNGVTMIARRNPDLRFLPDEAR SLPPPCLTDPRLLYIGFLGYCSGLIDNVI RRRPIATADKKTYGEIFEKHFPIR
2775	10826	A	3708	269	476	STCLGLPRCWNYRREQRLVYM*FVHL YYF
2776	10827	A	3709	448	894	DQASSNGVTMIARRNPEPLRFLPDEAR SLPPPCLTDPRLLYIGFLGYCSGLIDNVIR RRPIATAGLHRQLLYINGLFFLLGYLL VKREDYLYAVRDREMFYGNLHPEDF FLKEDKKTGEIFLKNSHPTLKVQKC LAPSFH
2777	10828	A	371	2	1309	EQQDLQDPLEVFHPTVEAAEALHIQEP GGEPSQPTQLPGGAPNTRPPHPQALWS V*RAPEQELHQDGRQPTG*QWLRTCSLG WPEAQLPAHLIGQADWPSQRPP*DPE*TP PRPQNPGPSNWRCTCFATPSCTGWA*AT TQIRMIENGKPELPGPSGEVPLGQQQVG PGVPSGFGPQAPPGLILHSNNIHQSGV FNEFLFPWFGGEGAGPYYNHGSASSTP CPTGRCKPATFRRRH*PPGHPVWATTKS RGM/TAATAGPQWGLGNTARHPDGEA EPGS*ARAQLASNPAPHLRVP*PQLRLPH SPPFPWVPKGCRWTQRPEGMTCYAWAH ELRPALPPQPPRGTP*SFFLVHSPACPAQ ALPPNLYCPGGGWEVEAQHPAQMTVPF LEAPHPHWPTGG*VSPYPSGPAQGGAAAS EVGGCLSIKETPCNV
2778	10829	A	3714	1	948	
2779	10830	A	3715	644	2034	AIETQAITDNCSEERKTFNLNVQMNSMD IRCSDIHQGDTQGPSVIAFISYSSLGNINA TFFEEMDKKDQVYLNQVVSAAIGPKR NVSLSKSVTLTFQHVKMTPTKKVFCVY WKSTGAG/CSQWSRDGCFLIHVNKSH MCNCSHLSSFAVLMALTSQEEDPVLTVI TYVGLSVSLLCLLALAALTFLCKAIQNT STSLHLQLSLCLFLAHLFLVAIDQTGHK VLCIIAGTLHYLYLATLTWMLLEALYL FLTARNLTVVNYSSINRFMKKLMFPVGY GPAVTVAISAASRPHLYGTADRCWLH LDQGMWSFLGPVCAIFSANLVLFILVF WILKRKLSSLNSEVSTIQNTRMLAFKAT AQLFILGCTWCLGLLQVGPAAQVMAYL FTIINSLQGFIFL\VYCL/LSAQQVQKQY QKWFREIVKSKSESETYTLSSKMGPSK PSEGDVFPRTSEKIL
2780	10831	A	3716	1	451	FFFFFFVRQDLALSPRLECNGIIFAHCNLC LPDSSDP\TSAFQVARTTGRNYAQLNL YFFVETEFAMLTRAGLNLSSRGPLASA SQSVGDYR\NSHHAQLIFCIGRDRVSL W\CPESQTPFKRSACLKPCWDYRGEP PHPVPSAL
2781	10832	A	3717	1	5898	
2782	10833	A	3718	1	333	

2783	10834	A	3719	1	5699	VNDNTNTAGSPGEVLSRRVCNLLKTALR PDMWPKSELKLQWFDKLLMTVEQPNQV NYGNICTGLEVL SFLT V LQSPAILSSFKP LQRGIAACMTGNTKVLRAVHSLLSRL MSIFPTEPSTSSVASKYEELECLYAAVGK VIYEGLTNYEKATNANPSQLFGDQGSW VTLAPGTL MILKSACSNNPSYIDRLISVF MRS LQKMVREHLNPQAASGSTEATSGT SELVMLSLELVKTRLAVMSMEMRKNFI QAIL
2784	10835	A	372	475	928	NLVACSLPISPETLSPVPLTPKPSGLLALS LGLAFLSCPLATPSPLPTKPGTAGPPQ PCPCSGLAPQTL YLSRRRLGGWRPSIPAQ MTPINRPESQTPVFLEAPHPHWPTGG*VS PYPSGPAQGGGAASEVGGCLSIKETPCNV KKKKKK
2785	10836	A	3720	109	11749	ARRGERRLVELMDPILFSGEANQPKRKM AFVATQGATEVDQTTLMKKYLQFVAAL TDVNTPDETKLKMMHEVSENFENGTSPP QYSTFLEHIIIPRVL TFLQDGEVQFLQEK AQQLRKL VLEIIHRIPTNEHLRPHTKNVL SVMFRFLETENEENVLICRLIIELHKQFR PPITQEIHHFLDFVKQIYKELPKVNVNRYF ENPQVIPENTVPPPEMVGMITTIAVKVNP EREDSETRTHSIIPRGSLSLKVLAEAL
2786	10837	A	3721	106	11708	
2787	10838	A	3722	2	581	RRFERRPMPHEVYTPPLVLQPLSLVSP WKSSQHIFRVLNTNID\GRRKNSPLPITA HLRVWARRYAHVVL RKADIDLTKIRAG EL\DEDEVERVIT/ISMQNPRQYKDPKTG FFEQDKKDV KDWKITARVLAQVWWTTS SRE RFGSRLEERFRAHKKGLRHFLGGLS CSEGQAHPRTWPAVGRHRGASAGARR
2788	10839	A	3723	6	297	GIRPRKREQAASEADKGPKEPLEYGKA KLSFQSCECGKAFQRHDHLARHRS LLAH LKDKARPFQCRYCVKSFTQNYDLLRHE RLHMKRRSKQALNSY
2789	10840	A	3724	201	403	
2790	10841	C	3725	78	422	
2791	10842	A	3726	591	966	EVLVTMALTRPSAASSKPQSSPWQCPL DSSHWPPSVAHLPTSYSGRE\GDKHTLSK RELKELIQKGAPPLASKLQDAEIARLM EDL\DRNKDQ\EVNFPRKYVTFPGGAFAF ESTIEGLKRVEK
2792	10843	A	3728	165	828	KEKARGRPKPLLLPITSATTAMGLTISS LFSRLFGKKQMRILMVGLDAAGKATIL YKL\KLGEIVTTIPITIGFGVKTIGYRNICF HSMGMLGGPDRIRPLWKHYFQ\NTQGLI FVVDSNDRERIQEV ADELHKMLLVDEL RDP\VLLLFANKQD\LPNAMAISEMTDK LWLQSLRNRTWYVQATCATQGTGLYEG LDWLSNELSKQLNEIGYLTQGPWFG
2793	10844	A	3729	191	1574	GVS RQDLTRLFGFSSPQPLKKLDAWLS EDMNYARFITAASARRNPSPIRTMTDILS RGPKSMISLAGGLPNPNMFPKTA VITVE NGKTIQFGEEMMKRALQYSPSAGIPELL SWLKQLQIKLHNPTTIHYPPSQGQMDLC VTSGSQGLCKVFEMIINPGDNVLLDEP AYSGTLQSLHPLGCNIINVASDESGIVPD SLRDILSRWKPEDAKNPQKNTPKFLYYC FQMGNPTGNSLT SERKKEIYELARKYD FLIIEDDPYYFLQFNKFRVPTFLSMDVDG RVIRADSFSKIISGLRIGFLTGPKPLIERV ILHIQVSTLHPSTFNQLMISQLLHEWGEE GFMAHVDRVIDFYSNQKDAILAADKW LTGLAEWHVPAAGMFLWIKVKGINDVK ELIERKRPLKMGVL\MLP\GNAFLRRIAQ LPSPYLRASFSSASPEQMDVAFQVLAQ LIKESL

2794	10845	A	373	2	643	PICLFSRPTLRPSRSKVSLEGRGANMAA RWRFWCVSVTMVVALLIVCDVPSASAQ RKKEMLVSEKVSQLEWTKRPVIRM NGDKFRRLVKAPPRNYSVIWMFTA/LQ LHRQ/CVVCKQADEEFQILANSWRY/S SAFTNKDIFFAMVADFDEGS/DMYFQML KH*ISAPNFPSTFLQKGKPKRGDTYELQ VRGFFQLRQISPWIAADRTDVQY
2795	10846	A	3730	2	454	RSFFFFCEVGSWVGS MRVVMARLLSEG EQCIPTACAAFAQQPGRPRRLAGVGE GGPQCSWVNYRCTLEFLVSLGTDLAR GRGNSATGPITAPADSKQLSCKTFIAVLS LSKEAGFCNVVQGWVSTSWGSSSPVPO FFPKLLEFTGQ
2796	10847	A	3731	379	640	DGVSLCYPGWNTVAQSQLTVGSISWAQ VILQTPPRVAVAPGRITTVYRDRVSLCC PGWSGLIVLGLKPPRVLGITGMGSPQPRP GI
2797	10848	A	3732	373	598	YPCPPE/RCAQRHGQACLLPSLERKCVIS LPPSPHQTFAGPKGLGHGDALSGLIWP QTPSCEPTQTPKQSNQLVN
2798	10849	A	3733	2	444	
2799	10850	A	3734	151	485	SPRGHYQLLLSGRALADRYRRIYTAALN DRDQGGGSAGHPAS/RSENLENTVIIPDI KLHSNPSAFNIYCNVRHCVLEWQKKEIS LAAASKNSVQSGESDSDEEEESKEPPIN
2800	10851	A	3735	1	176	
2801	10852	A	3736	1	6570	
2802	10853	A	3737	114	14222	AAPVAAPGALFMPVPDGSVAAAGLGLG LPAADSPGHYQLLLSGRALADRYRRIYT AALNDRDQGGGSAGHPASRNKKILNKK KLKRKQKSKSVKTRSKSENLENTVIIPD IKLHSNPSAFNIYCNVRHCVLEWQKKEIS LAAASKNSVQSGESDSDEEEESKEPPIKL PKIIEVGLCEVFELIKETRFSHPSLCLRSL QALLNVLQGGQPEVLQSEPPEVLESFQ LLEITVRSTGMNDSTGQSLTALSCACL
2803	10854	A	3738	373	662	CRKNSCYQAQNFNLRIPFSTTKLINLFHF *NDSQKST*/SDSHLARSSQFCSLN*NY*I *TAKSHDVVCTRQHFPSSLSESYIWHVKE KKYNPTAAAI
2804	10855	A	3739	29	658	LSVASLSFLPNASAEDTMSRLSRSLWA ATCLGVLCVLSADKNITTQHPNVTTLAPI SNVTSAPVTSPLVTTAPETCEGRNSCV SCFNVSVVNTTCFWIDCKDESYCSHNS TVSDACQVGNTTDFCSVSTATPVPTANS TAKTHSSPPLLQLPRQLLHQGTNTNTV NSVTSQPVRKSTFDAASFIGGIVLVLEIRC HTRNYIPDLKK
2805	10856	A	374	562	766	GKSISRYPLYPFVIFYFYFLETESCSAQA GVQWRNLGSLQSPPSGSSNSPASAS*VA ETTGERHHAQ
2806	10857	A	3740	1	183	KKGLSPEQDIKFSGHVSWVGKTSMEVK MQMFQPAFVNPLIPESPEEEELFRQGEC TLICL

2807	10858	A	3741	185	1548	LNQGPQNPKKQGNFHIHETSSSIHANHV RDKLREIVKASTNWRDHVKAMEERKLL HSFLAKSQDGLPPRRMKDSYIEVLLPLGS EPELREKYLTQNTVRFGRILEDLDSLGR FLFCYMHNKIHSKMSPLSIVTALVDKID MCKKSLSPEDIKFSGHVSWSVGKTSME VKMQMFQLHGDEFCPVLDATFVMVAR DSENKGPAFVNPLIPESPEEEELFRQGE NKGRRIAFSSTSLKMAPSAEERTTIHE MFLSTLADPKTISFRSRVLPNSGSGWEN SKLKEFWELCAHPSGSRNIFNRILVGFLM RKAYELAWATACSVFGSGRPFVGAVDV IMFQNPVEVGALLFLSSQVCFTQNNYI QVRVHSEVALPLQEKPAIQPHPMSEFHH RFHVGGKESAPLVPFKTYGESPCCTLD GQRAFPTPMSPATLEKGPTLVEPLRTP TIC
2808	10859	A	3743	2	286	TALQRHSEPSKLTTFVGELAHGRFSAK/M GTLALGVYHGLPASHMELAQELMETCY QMNRMQMETGLSPEIVHFNLYPQPGRRDV EVKPADRHNLRLP
2809	10860	A	3744	1	287	
2810	10861	A	3745	1	339	RPLLAFRLEEEQKMRPEIAGLKPANPPVL PAPQKADTDPENLPGMG*PSGQPRVQL CPGS*SLRCPQSKGLEGLP*LQRPEAPGL ALVFTSWTQGSSWPPRRGLGGLDGKSV
2811	10862	A	3746	2	991	
2812	10863	A	3747	1	2296	FRVDGAAMAACEGRRSGALGSSQSDFL TPPVGGAPWAVATTVMYPPPPPPPHRD FISVTLSEGESYDNSKSWRRRSCWKKWK QLSRLQRNMILFLLAFLFCGLLFYNLA DHWKALAFRLEEEQKMRPEFAGLKPAN PPVLPAPQKADTDPENLPEISSQKTQRHI QRGPPHLQIRPPSQDLKDGTQEEATKRQ EAPVDPRPEGDPQRTVISWRGAVIEPEQ GTLPSSRAEVPTKPPLPPARTQGTVPVH LNYRQKGVIDVLLHAWKGYRKFAWGH DDLKPVSRSEWFGGLTLIDALDTMW ILGLRKEFEEARKWVSKKLHFEKDVDVN LFESTIRILGGLLSAYHLSGDSLFLRKA DFGNRLMPAFRTPSKIPYSDVNIGTGVA HPPRWTSSTVAEVTISIQLEFRELSRLTG DKKFQEAVEKVTQHIHGLSGKKDGLVP LFHQLPTVGLFTHLG\VF TLGARADSYE YLLKQWIOGGKQETQLLEDYVEAIEGVR THLLRHSEPSKLTTFVGELAHGRFSKMD HLVCFLPGTLALGVYHGLPASHMELAQE LMETCYQMNRMQMETGLSPEIVHFNLYP QPGRRDVEVKPADRHNLRLPETVESLFY LYRVTGDRKYQDWGWEILQSFSRFRV PSGGYSSINNVQDPQKPEPRDKMESFFL GETLKYLFLLFSDDPNLLSLDAYVFNTE AHPLPIWTPGLGWMAAGVGTSGGQRHL AGSVAFSKGPRRHRQPPSGPGSELGLGF LLVSALIRTP
2813	10864	A	375	23	483	NGVLLSSRLKCSGAISAHCSLCLLGSSNS PTSASQVAGITGAHHHTWANFCI/YFF*V EMGFHHVG\QAGLELLTSDDPSALASQS AGITG/GEHLRLAVTYLNKHERGSFLSSS CLPSAWWKWLCLCSCFWVPKCLALCHF KHYGRRKQVGHTSK
2814	10865	C	3753	150	584	MHPSCCPCICKPFSTLVKSHVTASASSVP DSTCLRRGQQSCEVVLWQDRVSFQARE LKAVINSVQTSSCFIRHLPRSVSSAIAEG VTSVAIISSSSPSAGGALLWSAPFFETQQT AVAPPASLETLGPHLQPHLLHTAGSFG**
2815	10866	A	3754	292	483	

2816	10867	A	3755	84	316	GGKLINIKYLFYTSY*FLSFPWHFLLAAS RAQQGEVMRLACRLDPKTSFQMAGEW LKYQLSTFLDIAGSVNWKFFSLL
2817	10868	A	3756	423	1186	
2818	10869	A	3757	222	435	PCFLALAVCCVSKKGADHSSAPPADGD DEEMMATEVTPSAMAELTDLGKCLMKH EDVCTALLITAFHSLAW
2819	10870	A	3758	1	936	MAEPFTKALDMLDAEKSAILGLPQPLLE LNDSPVFKTVLERMQRFFSTLYEN/CECP WVGLFI*CTEHYEALVSPILGPLFTYLHC GEDEAADENPESQEMLEEQLVRLTRE VMDLITVCCVSKKGADHSSAPPADGDD EEMMATEVTPSAMAELTDLGKCLMKHE VLSGTLLADAVTWLFTSVLKGLQMHGQ HDGCMASLVHLAFQIYEALRPRYLEIRA VMEQIPEIQKDSLQDQFCKLLNPSLQKV ADKRRKDQFKRLIAGCIGKPLGEQFRKE VHIKNLPSLFFKKTCPMLETEVLDNDGGG LATIFEP
2820	10871	A	3759	30	3498	VAIVRHFGQLILEHVVKFRWNGMSRLEK VYLKNSVMELIANGTLNILEENHIKDAL SRIVVEMIKREWPQHWPDMIELDLSK QGETQTELVFILLRLAEDVVTFTLPPQ RRRDIQQTLTQNMERIFSLLNTLQENVN KYQQVKTDTSQESKAQANCRVGVAALN TLAGYIDWVSMASHITAENCKLLEILCLL NEQELQLGAAECLLIAVSRKGKLEDRKP LMVLFQDVAMHYILSAAQTADGGGLVE K
2821	10872	A	376	129	365	NYTYHLYANIFDTLEERGKFL/DKQNLK LEQTGKAQGFYDLLKKLN**L*SLLTKK ASGRGPLLGNSFQF*RKKMTPTL
2822	10873	A	3760	1	168	PLKRSDCNDGRPTRPPTRPDTTVFTSNL KQTRMVHLTPVERVCRYCPVG\QKGPG
2823	10874	A	3765	1	234	
2824	10875	A	3766	1	1697	LRAAGGGRTMPSFDEALQRVGEFGRFQ RRVFLLLCLTGVTFAFLVGVVFLGTQP DHYWCRGPSAAALAERCGWSPEEEWN RTAPASRGPEPPERRGRCORYLLEAAND SASATSALSCADPLAAFPNRSAPLVPCRG GWRYAQAHSTIVSEFDLVCVNAWMLDL TQAILNLGFLTGAFTLGYAADRYGRIVY LLSCLGVGVGTGVVAFAPNFPVFVIFRFL QGVFF\SLTWMTCYVIVTEIVGSKQRRIV GIVIQMFFTLGIILPGIAYFIPNWQGIQLA ITLPSFLFLYYWEVPESPRWLITRKKGD KALQILRRIAKCNGKYLSSNYSEITVTDE EASNPSFLDLVRTPQMRKCTLILMFAWF TSVVYQGLVMRLGIIGGNLYIDFFISGV VELPGALLILTIERLGRRLPFAASNIVAG VACLVTAFLEPGIAWLRTTVATLGRLGIT MAFEIVYLVNSELPTTLRNFVSLCSSL CDFGGHAPFLFRLAAVWLELPLIIFGILA SICGGLVMLLPETKGIALPETVDDVEKLG SPHSCKCGRNKKTPVSRSHL
2825	10876	A	3767	103	370	IGVPGAISASGRLAVALGTILSFSFSISE FFRFWLRVVGQVDLSGDVVYCTYPLFIF LSALSLEDYSPETKVFK*LKTKHDSHMT GN

2826	10877	A	3768	97	1639	CPLQWICAINNISRQIYLTDNPEAVAIAKL NQTALQAGTPITSFGKKQESSCPSQNLK NSEMENENDKIVPKATASLPEAEELIAPG TPIQFDIVLPATEFLDQNRGSRRTNPFGE TEDESFEAEDQQQEVNEILSGKCCLPD SLLQQMFIVRFLGSMVAVKTDSTTEVIYE AMRQVLAARAIHNIFRMTESHLMTVSQS LRAPGGRGGGGRSFSRLKCSCLPALKRA AGLPAQRLSSAKGQTASSESLTLVVPD GETPPSRNRQTPHTGEFQLASGHQHQR KVDKSTKMRKKQHRKAENSKNQNASPP PKDHNSLPAREQNWTENEFEETERGFR SDRENGTKLENTLQDIIQENFHNLARQA NIQIQEIQRTPQRYSRRATPRHIIIRFTKV EMKEKMLRAAREKGQVVTHKGKSIRLT ADLSAETLQVRREWGPIFNILKEKNFQP RISYPAKLSFISKGEIKFFTDKQMLKDVV TTRPALKELLKEALNMERKNQYQPLQK HTKM
2827	10878	A	3769	159	277	
2828	10879	A	377	67	224	
2829	10880	A	3770	1	474	HPPPTMALKRIHKELNDLARDPPAQCSA GPVGDDMFHWQA/TIMGPNDGPL/YQG GVFFLTIPFPQQITPFKP/PKVAFTTRIYHP NINHNGSICLDILRSQWSPALTISKVLLS/ ICSLLCDPNDDPLVPEIARIYKT/DREKY NRIAR/WTQKYAM
2830	10881	A	3771	153	291	
2831	10882	A	3772	1	336	
2832	10883	A	3773	1	2336	MVRSWLTATSASQVQAILLPQPKTQLN FTVAJDFTASNGETRMSEKVGGNPLQPT SLHYMSPYQLSAYAMALKAUGEIIQDY DSDKLFPAYGFGAKLPPEGRISHQFPLNN NDEDPCAGIEGVLESYFQSLRTVQLYG PTYFAPVINQVASNSWSSVTLGTDSEPA VEVPQYVGIRLLVEGFTIKKPMAMCHRR MGVRPAVPLLTQRGSGEGKDSGTPHSL HTKAQLPSPHVLRHQGVLRQRHSLV GTKALSTGKALRTLPTAKVFISLP*GPW HRR*AGRDSCSAGR*AAEDSLRLFHSSV SHHWKP*SQWLL*SSAVSWEAEAGELLE PGRRLQ
2833	10884	A	3774	1015	1292	AGRAWWRMPYNPQHFRPRRVVDHLRS GVQDQPGQHGETP/SLLKGPKIGWAWW RTPVIPATWEAEP/GELLEPRRQLQVSQ DRTALQPGQE
2834	10885	A	3775	183	511	SQHFGRLRWADCLRSQIQDQPGQHGETL SLLKIQKLARSGGTCLQSOLLARLRQEN HFSLGGEGCSEPRSGHCTPAWARV/GHS VLKTNEQKNSSTLHTKSHWIFQFPGH
2835	10886	A	3779	60	361	
2836	10887	A	378	436	829	NLREFPWAPCPVLHYKFSSKLNWIPVT L*GGSHILPSATLKKQIYGEKKLKAADC DLQITNAQTKEEYTDNALIPKNSSVIVR RIPIGGVKSTSKTYVISRTEPAMATTKAV CKNTISHFFYTLLLPL
2837	10888	A	3780	2	616	ERTEKSDRAVRSGAPHADGSREAVFCAC IWRWRVGGGRSCCTGRPSWGASSAVT RGPHVTRSCRATQPSLQSSLASGYQLPA ALSSARSAFGPGKSGAGSATAKCSSGAP RGENPEEKETARIGPGKTKKMEQPYAR MEEEDR/HLWGGGEGPPSPARKIERGKA RPTCPLNFRMGYPNRPESMDGDGWM EMDMGKYSMGR

2838	10889	A	3781	2	888	RQRQRPRAGPAGRTGGQKAPGARVPPG PAMEGASFGAGRAGAALDPVSFARRPQ TLLRVASWVFSIAVFGPIVNEGYVNTDS GPELRVFNAGACRFGVALGLGAFL ACAAFLLLDVRFQQISSVRDRRAVLLD LGFSGLWSFLWVFGCFLTNQWQRTAP GPFTHAGDAARAAIAFNFFSILSWVAL TVKALQRFRLGTDMSLFATEQLSTGASQ AYPGYPVGSVEGTETYQSPFTETLDT PKGYQVPAYYRLAGTDQGSKATPPTQA PGSPGPPLGPSSSVPRTE
2839	10890	A	3782	1	1944	MADRTKELESIPDSNRNRSIMGNSRDF DFGTTIKQDFRLLGQTSVDRLLQLSQGQ AVKGNQLLPVSLVKRKTTLAPNTQTASP RALADSLMQLARQVSRLESGQDFADFG TTIKQDFRLLGQTSVDRLLQLSQGQAVK GNQLLPVSLVKRKTTLAPNTQTASPRAL ADSLMQLARQVSRLESGQWTLVPNWNT TQPLSGDILLIYKGFCFRNHHQTGFLA GANQRGPLAATLSGPGGEGQSAVARLT GEKKN
2840	10891	A	3783	1	578	MGVEGRYPVSLSSDLEWRPDRCDASE VQRDPAGSAPLAEDVQVDPKDSHSSS ERFLEQSHSSMERAFAEADYGRSCDYKV SPSYLDKLLWRDNKPHHYSEPKLILDLS HWKQAAGAPPTATGLADTGAREDEPAS LFLENPQGVKSTQGAQNTPARPPTPSA AWLPRPPPPGTLADSCSVTKWGQV
2841	10892	A	3784	861	2636	GARGRPLAETWPFLTAPVLPQQLQITEPT MAEKGDCIASVYGYDLGGRFVDFQPLG FGVNGLVLSAVIDSRACRVAVKKIALS DARSMKHALREIKIIRRLDHDNIVKVYE VLGPKGTDLQGELEKFSVAYIVQEYMET DLARLLEQGTAEHAKLFMYQLLRGL KYIHSANVLHRDLKPANIFISTEDLVKI GDFGLAKESLNQHYSHKGYLSEGLVT KWYRSPRLLSPNNYTKAIDMWAAGCIL AEMLTGRMLFAGAHELEQMQLILETIPVI REEDKDELLRVMPFSVSSTWEVKRPLRK LLPEVNSEADIFLEKILTFNPMDRLTAE GLQHPYMSPYSCPEDEPTSQHPFRIE DDIVLMAANQSLSNWDTCSSRYPVSL SSDLEWRPDRCDASEVQRDPAGSAPL AENVQKDPKDSHSSSERFLEQSHSSME RAFEADYGRSCDYKVGPSYLDKLLWR DNKPHHYSEPKLILDLSHWKQAAGAPPT ATGLADTGAREDEPASLFLEMAQWVKS TQGAQSTPTRPPTPSAACLRPPPPGP GGRRRQPPVRPGRVHLRPEALHQARG PAGQ
2842	10893	A	3788	1	167	
2843	10894	A	3789	1	1685	NTIHDTEIYLSRCWVCCAVSAIARARA ALPNIVGEKGGAGSARSSPRRAAAECA QIPQPRRSPAVQAEPAARRSRFPFTLQGA FSSAIIAGIGGTSAAYYLRQKFGKDVKI DLFEREEVGRLATMMVQQEYEAGGS VIHPLNLHMKRFVKDLGLSAVQASGL LGIYNGETLVFEESNWFIIINVILVWRY GFQSLRMHMWVEDVVDKFMRIYRYS HDYAFSSVEKLLHALGGDDFLGMLNRT LLET/LQKPGCSEKLLNEMIGPVMRVNY GQSTDINAFVGAGSLSCSDSGLWAVEGG NKLVCSSLQASKSNLISGSVMYIEEKT KTKYTGNPTKMYEVVYQIGTETRSDFY DIVLVATPLNRKMSNITFLNFDPPINEF HQYYQHIVTTLVKGELNTSIFSSRPIDKF GLNTVLTDDNSDLFINSIGIVPSVREKEDP EPSTDGTYYVKIFSQETLTQAQILKFLS YDYAVKKPWLAYPHYK/PPPEKCLLSF SUDP VVNLNGIECAASAIMMEMSAIAAL

						SHDRLYYLNGIECAASAMEMSAIAAH NAALLAYHRWNGHTDMIDQDGLYEKL KTEL
2844	10895	A	379	74	378	GCTKDSNIYFIKEHFQSVNNHIKRLISFL IRVM*LKPQQTINTPIRMAKI*KAENSK CWQECGAAVTLMH***V*LPLKSWHFL KLSTCLFYDLAIP
2845	10896	A	3790	52	264	QSFAPGPPFPFPPWGGRAGGFPGPMG/ PPPGPPGGTSSSSKIPKFGPRGGPPFPPL PKRVRPGDFFYP
2846	10897	A	3791	627	1524	SHGENCKCPSTGDYRKLIYHLKGCQGLR NKGSSPFTSIVSAAKVCGAASESPSVKSL CLLVADQDFSFKAGQWVDFIPGVSVVG GFSICSSPRLLEQERVIELAVKYTNHPPA LWVHNTCTLDCEVAVRVGGEFFDPPQ ADASRNVLVIAGGVGINPLLSILRHAAD LLREQANKRNGYEIGTIKTILOCKKYPAE LLFKKNILDLVNEFPEKIACSLHVTCTDY TNPMRNSKPYITEGRITEKEIRDHISKETL FYICGPPPMTDFFSKQLENNHVPKEHICF EEVVVGGRQRQKK
2847	10898	A	3792	331	756	WKRSLKYLWLLRSHNSHPSSSLTPSLSPS AEAEEDGDLQCLCVKTTSQVRPRHITS EVIKAGPHCPTAQL/IVSPRTASVSAPAPC LLCPSLPLMPFANPRTESHVSSLFPARA TLKNGRKICLDLQALLYKKIIEHLES
2848	10899	A	3793	3	402	HEETQPEFPFIALSTEILLEALPQHELRSRV LR/AQRPGLLFLGLLLLPLVVAFRRAEA EEDGDLQCLCVKTTSQVRPRHIHQGR* SKAGPHCPTCPT**PR*KNGRKIWLGTW QAPLLQKG*FKETFWESLAN
2849	10900	A	3794	2	146	
2850	10901	A	3795	3	1034	SEFPARTPRRCPRSPGPAMGLTVSALFS RIFGKKQMPILMVGLDAAGK/TSHILYKL KLGEIVTTIPTIGFNVETVEYKNICFTVW DVGGQDKIRPLWRHYFQNTQGLIFVVD SND\REVRQESA\DELQKMLQEDELDA VLLVFSNKQDMPNAMPVSELT\DKLGL QHLRSRTWYV\QAHLLPTQGTGFVTMV LDWL\SHELFKALNQPWGRPLDARKSRC VQSPTMSQNSPTPRGKCPFPPTFSLPHSP QASAPCSCSLHVLVSVGAVEPLLSGHR GVPLFLPAGTYGRGFAGPRPPSSRGAGI WVSFFFCFGCTLGGQVGRGKVRAFGW CYNVALDLE
2851	10902	A	3796	1536	1838	GLPQQTLKRIQQVLIKCCLAFLFLFFF LRWSLALLPILE\CSGVISAHCNLRPLGLG DSLASASRVAGMTTGTCHHAQLIFCIFS RDGVSVLARTVWIS

2852	10903	A	3797	2	740	GRVGQSTSKVPKEGLLSLHLLCSTAHYQ KTAEMKSIYFVAGLFVMLVQGSWQSRSL QDTEKSRFSASQVADPLSDPDQMNED KRHSQGTFTSDYSKYLDSTRRAQDFLQ WLMNTKRNRRNNIAKRHDEFERHAEGTF TSDVSSYLEGQAAKEFIWLKGRGRR DFPGEGRPLLKNLAGRHADGSFSDMN TILDNLPARDFINWLIRTKITDREITYIT YSEIIFTNITLLAHVGCLEMFKSW
2853	10904	C	3798	204	272	
2854	10905	A	3799	1	350	
2855	10906	A	38	3	203	HASDKMADKEKKKKESILDLSKYIDKTI RVKFQGGREGEGLPLSVPL*KFQINPA TEMMRTHAEA
2856	10907	B	380	1	483	MGQARWLTPVIPALWEAEAGGSRGPSA AGLLEFARGPLQTLFAWVSAVAEEQRI FVNRECCCLIVPLEVLSQRSTRPCEVSV PYWENAFQLGCSGTVTVGSTTVTLAECL KWLTTFQLVSLGAAVAMDVLNTGDVV WLLNVAAEWNSFVNIPNDSLS*
2857	10908	A	3800	1	397	QRPI*PTKPIQQRVSKGHQPTRHDFTFQ LAAHETISRLVGFSAGQVQYLDLIKVD SKLFNEERLIDKTKVTYKWLPESESLFL ASHASGHLLYLVNVSHPCASAPPQYSLK QGEFVSYYAAKYNDLFL
2858	10909	A	3801	1	2066	MAAGGAEGGSGPGAAMGDCAEIKSQFR TREGFYKLLPGDGAARRSGPASAQTPVP PQPPQPPGPASASGPGAAGPASSPPAG PGPGPALPAVRLSLVRLGEPDSAGAGEP PATPAGLGSGGDRVCNFGRELYFYPGC CRRGSQRWHTPLTPFLPLKSIDLNKPID KRIYKGTQPTCHDFNQFTAATETISLLVG FSAGQVQYLDLIKDDTSKLFNEERLIDKT KVTYKWLPESESLFLASHASGHLLYLVN VSHPCASAPPQYSLKQVWGFSAK SKAPRNPLAKWAVGEGPLNEFAFSPDGR HLACVSQDGCLRVFHFDSMLLRGLMKS YFGGLLCVCWSPDGRYVVTGGEDDLVT VWSFTEGRVVARHGHSWVNAVAFD SLYTTRAEEAATAAGADGERSGEEEEEE PEAAGTGSAGGAPLSPLPKAGSITYRFGS AGQDTQFCLWDLTEDVLYPHPLARTRT LPGTPGTTTPAASSSRGGEPGPGPLPRSL RSNSLPHPAGGGKAGGPGVAAEPTPFS IGRFATLTLQERRDRGAKEHKRYHSLG NISRGGSGSGSGGEGKPSGPVPRSLDPA KVLGTALCPRIHEVPLEPLVCKKIAQER LTVLLFLEDCHIACQEGLECTWPRPGKA FTDEETEAQTGEGSWPRSPSKSVVEGISS QPGNSPSGTVV
2859	10910	A	3802	1	1155	
2860	10911	A	3803	285	1444	LLISPGPRLGAPSFPMAGHLASDFAFSPPP GGGGDGPGGPEPGWVDPRTWLSFQRP GGPGIGPGVPGSEVWGIPPCPPPYEFC GGMAYCGPQVGVGLVPQGGLETSQPEG EAGVGVESNSD GASPEPCTVTPGAIVKL EKEKLEQNPEKISQDIKALQKELEQFAKL VKQKRITLGYTQADVGLTLGVLFKGVFS QTTICRFEALQLSFKNMCKLRPLLQKWV EEADNNENLQEICKAETLVQARKRRTS IENRVRGNLENLFLQCPETPHWQQISHIA QQLGLKKHVVRVVRVWFCNRRQKKGK RSSDFAQREDFAAGSPFSGGPVSLFP LPPGPHFGTPGYGSPHFTALYSSVPFPE GEAFPPVSVTILGSPMHSN
2861	10912	A	3806	3	225	GQTSQHHVALRTTQHHWALGQHRVAL HTVEYYLALKRKEMDTGCKWMELEYI VLSGISQSQEDMHCMIPFVSGP

2862	10913	A	3807	874	1444	CQARPMPLRAFNPVSSFRWARGMTIVA ALMTVFFIMQLVGQVPAALWVIFGEDRF RWSATMIGLSLALFGILHALAQAFVTGP ATKRFGEKQAIHAGMGPNALGYVLLAFA TRGWMAFFPIMILLASGGIGMPALQAMW LAE*ITDTRANVKRLLQNVCDLSNNMN GLRFPFCVKSCGTPTSVLTKRWH
2863	10914	B	3808	1	1917	MIGLSLAVFGILHALAQAFVTGPATKRF GEKQAIHAGGRRAGRLRAGVPTRGWM AFFPIMILLASGASGCRVAGHAVQAALRA QGLLKEAEHVESQSAETVLTDECQLLG YLDKGKRKRKEKAGSLQWAYMAIARL GGFMDSKRTGIASWGALCAGAAVLFVK TDLGALNELQDEAARLSWLATTGVPC AAVLDDVVTEAGRDWLLGEVPGQDLS SHLAPAEKVSIMADAMRRLHTLDPATCP FDHQAKHRIERARTRMEAGLKDLMRD QDLIKRQDEDRSHDEQDDARRSPA RAYSAIAATDNSGRPVLVFKTDLGAL NELQDEAARLSWLATTGVPCA TEAGRDWLLGEVPGQDLS VSIMADAMRRLHTLDPATCPFDHQAKH RIERARTRMEAGLVDQDDLDEHQGLA PAELFARLKARMPDGEDLVVTHGDAAC RISWWKMAAFLDSSTVAGWDIALATRDI AEELGGEWADRFLVLYVLLSGTLGFEM TDQATPNLPSRDFDSTAIFYERLGFIVF RDAGWMILQRGDLMEFFAHPGLDPLA SWFSCCLRLDDLAEFYRQCKSVGIQETS SGYPRIHAPELQEWGGTMAALVRIFVKE PYFCGVT*
2864	10915	A	3809	1057	1905	
2865	10916	B	381	119	955	MVSISRPRDPPASASQSAGITGPALGAEG ERAFHRHRVMIVTEGAPGGLSSGHLRDA MDSEAGTDDGCASHVRVVRDLKPSNI LYVDESGNPECLRICDFGFAKQLRAENG LLMTPCYTANFVAPEVLKRQGYDEGCDI WSLGILLYTMLAGYTPFANGPSDTPPEIL TRIGSGKFTLSGGNWNTVSETAKDLVSK MLHVDPHQRLTAKQVLQHPWVTQKDK LPQSQLSHQDLQLVKGAMAATYSALNS SKPTPQLKPIESSILAQRRVRKLPTTL*
2866	10917	A	3810	1	2928	
2867	10918	A	3811	630	1159	GAPWGQVPAALWVIFGEDRFWSATMI GLSLAVFGILHALAQAFVTGPATKRFGE KQAIHAGMAADALGYVLLAFATRGWMA FPIMILLASGGIGMPALQAMLSRQVDDD HQQQLQGLAALTSLSIIGPLIVTAIYAA SASTWNGLAWIVGAALYLVCLPALRRG AWSRATST
2868	10919	A	3812	1	3525	
2869	10920	A	3813	1	1606	MLMKAHKGVLGEQEKVPRRLMKVLKG VPGEQEKVLWEAREEGVSSRWGSPMG CEQRVWMGDEQAMEPLGLADGKLWRT FMGAADAERKEGRGMKVAPAPAVVKK QEAKKVVNPLFEKRPKNFGVGQDIQPKR DLTRFVKWPRYIKLQHQAFLYKRLKVP PAINQFTQALDRQTATQLELAHKYRPE TKQEKQRLLAQAEKTAGKGDISTKRL PVLQAGVNWEDKSALAKLVEGIRTNYN ERYNEIHHHWGGNVLGPESVARIKLLK ADGSLRLDFTVCKKAWIVSHPVSRKLP QQKRQNRKKRQEVQAWGSGPCLSLVV GSEPATGGSSCSETSGFGKSKVKETNP QPMATPTLEQGEVAHAIEPPACSHG QVPAALWVIFGEDRFWSATMIGLSLAV FGILHALAQAFVTGPATKRFGEKQAIHAG MAADALGYVLLAFATRGWMAFFPIMILL ASGGIGMPALQAMLSRQVLSIIGPLIVTA

						IYAASASTWNGLAWIVGAALYLVCLPAL RRGAWSRATST
2870	10921	A	3814	1701	1904	
2871	10922	A	3815	1	427	MAKMKNQIIPSVGEKLEQQKPSYDARAF VTGPATKRFGEKQAIHAGMATDALGYVL LAFATRGWMAFPIMILLASGGIGMPALQ AMLSRQLTSIIGPLIVTAIYAASASTWNG LAWIVGAALYLVCLPALRRGAWSRATS T
2872	10923	A	3816	1	1629	
2873	10924	A	3817	1	1013	MMGLRNSYDVKERLKHQVRGGKAPKA VNSGKLLPFPRLKELAGVEGMGNCYLG RTQPGTRMQWSPMKLSVELRAGQRSLL RESKGKEIPEPRCAAVGGKEPEAKPPKV PRPMPLRAFNPVSSFRWARGMTIVAAL MTVFFIMQLVGQVPAALWVIFGEDRFR WSATMIGLSLAVFGILHALAQAFVTGPA TKRFGEKQAIHAGMAADALGYVLLAFAT RGWMAFPIMILLASGGIGMPALQAMLSR QVDDDHQGGQLQGSLAALTSLTSIIGPLIV TAIYAASASTWNGLAWI*PGMFIISNPY REHPLSFHRYHYPHEQKSPLHGGISDQT GKNRP
2874	10925	A	3818	1	2634	
2875	10926	A	3819	1328	2536	
2876	10927	A	382	1	662	LGSCVTVTQGVQWCGHSSLRPQTQAQAI LLPCLSNWCWDYKHEPLHLAYVTQFCFLS FFFGGGGWSLALSPMLECGGVILAQCKL RLLGFTPFSCSLSPSSWDHRHPPCLANF LNF/SVETGFHFLAQDGLDLLTS/S/PPAS A/FPKCWDYRRDHRAQPM*CNSDVNSL MLPQMPQVK/AHQSPIGCPFRHTCRLG CPQTICTSHQLAANLEVPTMPSSSITH
2877	10928	A	3820	1	1594	MSAAPCSTVPSPIDHPRAECGHTARDW QVAPPAAQSHDDDEEEEEEDEKEEEEEEE ELLAGSPYSPTVPCFPLECPCLENGSRQ KQDKHTPGFKHKFQHAFFFSFPLATITHS FWVAEHSRLLEGKQGAQISPHLQVGPGL VWQGYLWQNREAGSSRDShLNMPCGM AAGHSHSGTLFSDQGLWEQCQLLKSTSV FARCHPLVDPEPFVALCEKTLCECAGGL ECACPALLEYARTCAQEGMVLYGWTDH SACSPVCPAGMEYRQCVSPCARTCQSLH INEMCQERCVDGCSCPEGQLLDEGLCVE STECPCVHSGKRYPPGTSLSRDCNTCICR NSQWICSNEECPDREGHNSRQREVALSA QVGCNHVTPALVSGQVPAALWVIFGED RFRWSATMIGLSLAVFGILHALAQAFVT GPATKRFGEKQAIHAGMAADALGYVLLA FATRGWMAFPIMILLASGGIGMPALQAM LSRQLTSIIGPLIVTAIYAASASTWNGLA WIVGAALYLVCLPALRRGAWSRATST

2878	10929	A	3821	3	995	TSPTATGPALVCYRASLVALREEDTRSQ EYVPPFRGNRDFAHVKKMGGLGLLAMD VPEELGGAGLDYLAYAIAMEEISRGCAS TGVIMSVNNSLYLGPILKFGSKEQKQAW VTPFTSGDKIGCFALSGTRAFNPVSSFRW ARGMTIVAALMTVFFIMQLVGQVPAAL WVIFGEDRFRWSATMIGLSLAVFGILHA LAQAFVTGPATKRFGEKQAIAGMAADA LGYVLLAFATRGMWMAFFPIMILLASGGIG MPALQAMLSRQVDDDHQGGQLQGSAA LTSLSIIGPLIVTAIYAASASTWNGLAWI VGAALYLVCPLALRRGAWSRATST
2879	10930	A	3822	1	619	MPLRAFNPVSSFRWARGMTIVAALMTV FFIMQLVGQVPAALWVIFGEDRFRWSAT MIGLSLAVFGILHALAQAFVTGPATKRF GEKQAIAGMAADALGYVLLAFATRGMW MAFFPIMILLASGGIGMPALQAMLSRQVD DDHQGGQLQGSAAALTSLSIIGPLIVTAIY AASASTWNGLAWIVGAALYLVCPLALRR GAWSRATST
2880	10931	A	3823	1	565	MPLRAFNPVSSFRWARGMTIVAALMTV FFIMQLVGQVPAALWVIFGEDRFRWSAT MIGLSLAVFGILHALAQAFVTGPATKRF GEKQAIAGMAADALGYVLLAFATRGMW MAFFPIMILLASGGIGMPALQAMLSRQLT SIIGPLIVTAIYAASASTWNGLAWIVGAA LYLVCPLALRRGAWSRATST
2881	10932	A	3824	1	934	MTMWVLHCAFTYFVSAWSKHGYAHAV TAKILYAGRIVAGITGATGAVAGAYIADI TDGEDRARHFGLMSACFGVGMVAGPV AGGLLGAISLHAPFLAAAVLNGLNLLG CFLMQESHKGERRPMPPLRAFNPVSSFRW ARGMTIVAALMTVFFIMQLVGQVPAAL WVIFGEDRFRWSATMIGLSLAVFGILHA LAQAFVTGPATKRFGEKQAIAGMAADA LGYVLLAFATRGMWMAFFPIMILLASGGIG MPALQAMLSRQLTSIIGPLIVTAIYAASA STWNGLAWIVGAALYLVCPLALRRGAW SRATST
2882	10933	A	3825	657	7035	LRTCWHSDCQNTAADHSAQSGRRHRK PCNRCAPGSQNWAVPLLPDISCRTGCAV RKDRLIAGPIQ*N/LKTAVVGRQPYLTKL CLMLGCLGRMRWRCSTGWLRRLRTSSVQ CS*RISNRMSTGSMLETTWL*MKLQQVN GLGQGLIQSAGKDCDVQGLEHDMEEIN ARWNTLNKKVAQRIQLQEALLHCGKF QDALEPLLSWLADTEELIANQKPPSAEY KVVKAQIQEQKLLQRLDDRKATVDML QAEGGRI

2883	10934	A	3826	140	2298	LFPRLLSFLTTPPHCSFSICFVICSRITLILK GSSLITG/CTQFRLSETKEITNPNYAMRLYE SLCQYRKPDGSGIVSLKIDWIIERYQLPQ SYQRMPLDFLPLPAGALSLISKVTDNAN DSMEQGAETSQGALGTLANVVTSLANL SESLNNGDTSEIQPEDQSASEITRAFDTL AKALNTDSSSSPSLADGIDTSGGSIHVI SRDQSTPIIEVEGPLLSDTHTVTFKSIREDR NGRSQKTVHTEGDMNMNIKKIVKQATV LTFTTALLAGGATQAFKENNQKAYKE TYGVSHITRHDMLQIPKQQQNEKYQVPQ FDQSTIKNIESAKGLDVWDSWPLQNADG TVAEYNGYHVVFALAGSPKDADDTSIY MFYQKVGDNIDSWSKNAGR VFKDSDF DANDPILKDQTQEWSGSATFTSDGKIRL FYTDYSGKHYGKQSLTTAQVNVSKSDD TLKINGVEDHKTIFDGDGKTYQNVQQFI DEGNYTSGDNHTLRDPHYVEDKGHKYL VFEANTGTENGYQGEESLFNKAYYGGG TNFFRKESQKLQQSACKRDAELANGAL GIELNNDYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLF TDSRGSKMTIDGI NSNDIYMLGYVSNLTGPYKPLNKTGLV LQMGDPNDVTFTYSHFAVPQAKGNNV VITSYMTNRGFFEDKKATFAPSFLMNIK GNKTSVVKNSILEQQQLTVN
2884	10935	A	3827	1	2604	
2885	10936	C	3828	1	2076	MNMNIKKIVKQATVLTFTTALLAGGAT QAFKENNQKAYKETYGVSHTRHDM LQIPKQQQNEKYQVPQFDQSTIKNIESAKG LDVWDSWPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKVGDNIDS WKNAGR VFKDSDFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSGKHYGKQ SLTTAQSIREDRNGRSQKTVHTERDMIM NIKKIVKQATVLTFTTALLAGGATHAFA KENNQKAYKETYGVSHTRHDM LQIPKQ QQNEKYQVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHVVFALAGS PKDADDTSIYMFYQKVGDNIDSWSKNA GRVFKDSDFDANDPILKDQTQEWSGS ATFTSDGKIRLFYTDYSGKHYGKQSLTT AQVNVSKSDDTLKINGVEDHKTIFDGDG KTYQNVQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYLVFEANTGTENGYQGEES LFNKAYYGGGTNFFRKESQKLQQSACK RDAELANGALGIELNNDYTLKKVMKPL ITSNTVTDEIERANVFKMNGKWYLF TDS RGSKMTIDGINSNDIYMLGYVSNLTGP YKPLNKTGLVLQMGDPNDVTFTYSHF AVPQAKGNNVITSYMTNRGFFEDKKA TFAPSFLMNIKGNKTSVVKNSILEQQQLT VN*
2886	10937	A	3829	1	3603	
2887	10938	A	383	110	784	AAAAASKVLM*TGGAAPQEQP*TGGVQ A*APGSVA/AEGASVEGPGFGDTAPAHQ GLSPTRSHGQGGAGRASAHSRDPPGGTG GWGFLKCGPGALCPERGKDGASASVPR GPYAEAEKGGWALRGLGGVAAPGPPSR AGQAPSGLHTGPNARPAPWPIPGGGGL RRDQAG*VSSWTGSTPGAHTAHRAPG HGGKGGSPQQPHPGPGQIPTTHTRMHS CRITAA

2888	10939	A	3830	2455	3151	DRRCPIFCLLPFGIRFILLFGSSSLQRGPFHIL FFFFLIFFFFFIFLLSILGSFFFFLLSPVLLLL HHFFLSLFPACLLHLLLLLLQVLGAQLG RCLHA/SSPTWCRGRGR/VLAGSRGPAGAE TEGPWTAEGGRGRNLARWRRRRRQRQ RRPLGKLGLWKRRQRAGWGGGGSGA ETRRAAAVRRAGGRAVQAVAGALGRG SSIPGSPPPHQQAADQPCRPREGNPLIRR RLP
2889	10940	A	3831	1	2376	MKLMETLNQCINAGHEMTKAIAIAQFND DSPEARKITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQRVGYTIE QINHMRDVFGTRLRRAEDVFPFVIGVAA HKGGVYKTSVSVHLAQDLALKGLRVLL VEGNDPQGTASMYHGWVPDLHIHAEDT LLPFYLGEKDDVTYAIKPTCWPGLDIIPS CLALHRIETELMGKFDEGKLPTDPLML RLAIETVAHDYD*FVQLYNQHVAPVL/ GISISGCGSRPAFSASLIA*EETPTKSAASP ILQRRVIFLASGLSSLNCAMAIAFVIS
2890	10941	A	3832	1289	3109	ETPYVSLYAFWLFSSFAKA*VAPPSGFSPT VVSSDSWLGSVPYTLIART/PELIFVVRQ QVLDVERGAAACG*FLPRLVG*VPDLDA VGLYSTAPII*GAIPGQQQ*GLRMSEAQG VPAGGSLSTTVRLTWACLLPSLFSTSSV *QPQCSWRAARMVSLLPFSLFSTFMCSL SWICFRNFIQVQVMG*VPVTL PNSSTDSP ARTFWSSGNWMI*GGIAAFGGVLGAGFF FTVAS/PLSS*HGRKRALGPPGFHLWGLG VLTGWSIIHGDLAGALRLASVILGYTLV* ASVLRQCCLLDGDGQSEPSWERMMLNV VLMVFPFSVQMMVAGGSEDTWHWSSSF LPSAT*TSCSFCLKAGAVPWLSDLFSLSV VPAWPLLQFTSFLTSFLSSSLADFRFSSG LALPMGFRVSAGLALPIGFRVSAGLALP TGFKGPEGCALLRGLELSTALAFRVSA LLPFSAGNFFLPSTERKSGVAGFGGGTF SGTGVLEVFPFLARTERKSTCWGLCTFLS SSDTVFGFTCRCLARKSICSAGISFRSSS DRVFVLTFFPRRSRKSSCSTSCWRIASSV CCLVSTRLFSTPRTSSPSSSSSQPCPLAQ PGLRDP
2891	10942	A	3833	1	2968	MTIVAALMTVFFIMQLVGQVPAALWVIF GEDRFRWSATMIGLSLAVFGLHALAQA FVTGPATKRFGEKQAIHAGMAADALGYV LLAFATRGWMAFPIMILLASGGIGMPAL QAMLSRQPNFDHWTADRHGDLCLGEH MERVGMDCRRRPICLPVRVASRCMEPG HLDMNGSRRHLANGFTTPRIGANQFLRR TVNAQTNPWQNISIASAISSSTRTRISGSV GSWPRSGNAEVSALHHYVPDLHRRMLL ATL
2892	10943	A	3834	1	563	MPLRAFNPVSSFRWARGMTIVAALMTV FFIMQLVGQVPAALWVIFGEDRFRWSAT MIGLSLAVFGLHALAQAFTVGPATKRF GEKQAIHAGMAADALGYVLLAFATRGW MAFPIMILLASGGIGMPALQAMLSRQLT SIIGPLIVTAIYAASASTWNLAWIVGAA LYLVCLPALRRGAWSRATST
2893	10944	A	3835	850	1280	
2894	10945	A	3836	3	3971	VCTGSSTRHIVTFDQGNFKLTGSCSYVLF QNKEQDLEVILHNGACSPGARQGCMSI EVKHSALSVELHSDMEAFRFLVHGHPYS ITTACFLVKLCKVKLCFLVKLFFILEELPT NIKVTVNGRLVSVPYVGGNMEVNVYGA IMHEVRFNHLGHIFTTPQNNEFQLQLSP KTFASKTYGLCGICDENGANDFMLRDG TVTTDWKTLVQEWTVQRPGQTCQPILEE QCLVPDSSHQVLLLPLFAECHKVLAPA

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2895	10946	A	3837	1838	4062	KRHKKPFKKSTNPGAGFFEKINKIDRLLA RLIKKKREKNQIDAIAKNDKGDITTDPTM QTTVREYYKHLVYNKPENLEEMDKFLD TYTLPRLNQEELESLNKPITGSEIEAIIINSL PTKKSPGPDGFTAIFYQRYKEELLPFLK LFQSIEKEGILPNSFYEAIIIPKPGRDTT KKENFRPISLMNIDANILNNILANQIQQHI KKLIHHDEVGFIPGMQGWFNIRKSINLIP HVNRTKDKNHMVISVDAEKAFDKIQQH FMLKTLNKLIGDGYLKIRPIFDKPTADI ILNRQKLEALPLKTGTQRQCSLPLLFNI VLEVLARAIRQEKEIKGIQLGKEEVKLSL FADDMIVYLENPIVSAQNLLKLIGNFSKV SEYTIINVQKSQSFYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTREVKDFFKENYK PLLDEIKENTNKWKNIPWSVWGRIDIVK MAILPKQMPDVNVSWDGEQPKQLPFIDI SVAVATDKGLLTPIIKDAAAKGIEIADS VRSNIVLQCQARPMPLRAFNPVSSFRWA RGMTIVAALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVFGILHALA QAFVTGPATKRFGEKQAIAGMAADALG YVLLAFATRGMWMAFPIMILLASGGIGMP ALQAMLSRQVDDDHQQLQGSALALTS LTSIIGPLIVTAIYAASASTWNGLAWIVG AALYLVCLPALRRGAWSRATST
2896	10947	A	3838	346	777	GELYFQVCGQFWNRCGVVMKKMYILLF LSGEFCRCL*YSLMVVCISVGSVISPLSF FIVSI*FFSLFFFISLASSLSILLILSKNQLLD SLIF
2897	10948	A	3839	1	564	MPLRAFNPVSSFRWARGMTIVAALMTV FFIMQLVGQVPAALWVIFGEDRFRWSAT MIGLSLAVFGILHALAQAFVTGPATKRF GEKQAIAGMAADALGYVLLAFATRGMW MAFPIMILLASGGIGMPALQAMLSRQPN FDHWTADRHGDLCLRGHEMERVGMDC RRRPIPLPPRVASRCMEPGHLDLNGSRR HLANGFTTPRIGANQFLRRTVNAQTNPW QNISIASAISSSRTRRISGSVGSWPRSGNA EVSA
2898	10949	A	384	244	315	NPKGQKDREAPLSRSVFVLKIKIKRAFAL LLHGRF*PSTPAASASPASKSPRGSGKAL ASALFYIVQLTK
2899	10950	A	3840	3	1049	GSLQGCCAASCARAFLRTCCARSESGLAV RGTKGVAFGENPRAAGTCSQSPFFPVAP PPGVRLWVLCPRFTGAFLLRTLALNV RAGDEGPRLLRAPRVPSRPSAPLAPAP ASTPARRLPVPMQAPGRGPLGLRLMMP GRRGALREPGGCGSCLGVALALLLLLP ACCPVRAQNDTEPIVLEGKCLVCDSSP SADGAVTSSLGISVRSGSAKVAFSATRST NHEPSEMSNRTMTIYIDQVFSNIGHHFDL ASSIFVAPRKGIFYSFSFHVVKVYNRQTIQ VSLALLNGYPVISA WAGYQDVTGEAASN GVLLMEREDKVHLKLERGNLMGGWK YSTFSGFLVFPL
2900	10951	A	3841	1	401	KGASSPVQVPGPVAASTEALLQEAQCSG LSWVVALPQVKQEKADTQDEWTPGTAV LTSPVLVPGCPSKAVDPGLPSVKQEPDP EEDKEENKDDASKLAPEEEITEIFSLGGP RFRDTAV*LPRSKDLKKPR

2901	10952	C	3842	108	293	MNMACLGCFVVALIILPFSNPAPPPLKSN FLYSGSWEEKMHQLSTLSLPFLTSSRSS KYS*
2902	10953	A	3843	1	1490	MIREQKIYHKYLAQRREEEKAQEKEFDR ILEEDKAKKLAEKDKELRLEKEARRQLV DEVMCTRKLQVQEKSQYVKLLAAHPT GDRIRSKVELTRYLGACDLTLFDFKQGI LCYPAPKAHPVAVASKKRKKPSRPAKTR KRQVGPQSGEVRKEAPRDETKADTDTA PASFPAPGCCENCISFSGDGTQRQLKT LCKDCRAQRIAFNREQRMFKQPYTNRR QNRKCGACAACLRMDGCRDCFCDKP KFGGSNQKRQKCRWRQCLQFAMKRLLP SVWSESEDGAGSPPPYRRRKRPSSARRH HLGPTLKPTLATRТАQPDHTQAPTQEA GGGFVLPPTGDLVFLREGASSPVQVPG PVAASTEALLQEAQCSGLSWVVALPQV KQEKADTQDEWTPGTAVLTSPVLVPGCP SKAVDPGLPSVKQEPDPPEEDKEENKDD SASKLAPEEEAGGAGTPV/VTSVDSIYPE RQL*VSSWSYLHSCGTERYPGCSI
2903	10954	A	3844	1	1758	MAEDWLDCPALGPGWKRREVFRKSGA TCGRSDTYYSPTGDRIRSKVELTRYLG PACDLTLFDFKQGILCYPAPKAHPVAVA SKKRKKPSRPAKTRKRQVGPQSGEVRKE APRDETKADTDAPASFPAPGCCENCIS FSGDGTQRQLKTLCCKDCRAQRIAFNRE QRMFKRVGCGECAACQVTEDCGACSTC LLQLPHDVASGLFCKCERRRCLRIVERSR GCGVCRGCQTQEDCGHCPICLRPPRGL RRQWKCVQRRCLRGKHARRKGGCDK MAARRRPGAQPLPPPPPSQSPEPTQPYP T/IPPAEPQVRGLCSLPTAEWMWPLRVC CDKPKFSGSNQKRQKCRWRQCLQFAM KRLLPVWSESEDGAGSPPPYRRRKRPSS ARRHHLGPTLKPTLATRТАQPDHTQAPT KQEAAGGFVLPPTGDLVFLREGASSPV QVPGPVAASTEALLQAVDPGLPSVKQEP PDPEEDKEENKDDSAKLAPEEEAGGAG TPVITEIFSLGGTRFRDTAVWLPSLQGRH SGREDGCKVWETEDTVEPTSTSWNPRG WPGTHVSLSPPPASMMWVSCRRSWCPS SQS
2904	10955	A	3845	1	1647	
2905	10956	A	3846	1	1821	MAEDWLDCPALGPGWKRREVFRKSGA TCGRSDTYYSPTGDRIRSKVELTRYLG PACDLTLFDFKQGILCYPAPKAHPVAVA SKKRKKPSRPAKTRKRQVGPQSGEVRKE APRDETKADTDAPASFPAPGCCENCIS FSGDGTQRQLKTLCCKDCRAQRIAFNRE EQRMFKRVGCGECAACQVTEDCGACST LLQLPHDVASGLFCKCERRRCLRIVER SRGCGVCRGFQVTEQED/CLGHCPICLRPP RPLRRQWKCVQRRCLRGKHARRKGG CDSKMAARRRPGAQPLPPPPPSQSPEPTE PHPRALAPSPPAEFIIYCVDEDELQPYTN RRQNRKCGACAACLRNGCGRCDFCCD KPKFSGSNQKRQKCRWRQCLQFAMKR LLPSVWSESEDGAGSPPPYRRRKRPSSAR RHHLGPTLKPTLATRТАQPDHTQAPTQ EAGGFVLPPTGDLVFLREGASSPVQV PGPVAASTEALLQEAQCSGLSWVVALPQ VKQEKADTQDEWTPGTAVLTSPVLVPG CPSKAVDPGLPSVKQEPDPPEEDKEENK DDSAKLAPEEEAGGAGTPVITEIFSLGG TRFRDTAVWLPRSKDLKKPGARKQ
2906	10957	A	3847	1	1723	

2907	10958	A	348	1	1949	MAEDWLDCHLEGPWKRREVFRKSGA TCGRSDTYQSPGDRIRSKVELTRYLG PACDLTLFDFKQGILCYPAPKAHPVAVA SKKRKKPSRPAKTRKRQVGPQSGEVRKE APRDETKADTDAPASFPAPGCCENCIS FSGDGTQRQLKTLCKDCRAQRIAFNRE QRMFKRVGCGECAACQVTEDCGACSTC LLQLPHDVASGLFCKCERRRCLRIVERSR GCGVCRGCQTQEDCGHCPICLRPPRGL RRQWKCVQRRCLRLAHLRRRHQRC QRRTPLA VAPPTGKHARRKGGCD SKMA ARRRPGAQPLPPPPPSQSPEPTEPHPRAL APSPPAEFIYYCVDEDELQPYTNRRQNR KCGACAACLRRMDCGRCDFCCDKPKFG GSNQKRQKCRWRQCLQFAMKRLPSV WSESEDGAGSPPPYRRRKRPSARRHHL GPTLKPTLATRTAQPDHTQAPTKQEAGG GFVLPPPGH*TLCLREGVASSPVQVGP VAASTEALLQEAQCSGLSWVALPVK QEKADTQDEWTPGTAVLTSPVLVPGCPS KA VDPGLPSVKQEPDPPEEDKEENKDDS ASKLAPEEEAGGAGTPVITEIFSLGGTRF RDTAVWLPSLQGRHSGREDGCKVWETE DTVEPTSTSWNP
2908	10959	A	3849	2	1682	LCDTPPGRGGGGRRGGRLQEGPSF MGRGLEWRKIPAWLPNWLLLLPVASM AED\WLYCPALGPWKRREFFRKSRTC GRLNTYYQSPGDRILSKVELTRYLGPA CDLTLFDFKQGILCYPSPQRPIPLGGLPG KKRKKPSRPAKTRKRQVGPQSGEVRKE APRDETKADTDAPASFPAPGCCENCIS FSGDGTQRQLKTLCKDCRAQRIAFNRE QRMFKRVGCGECAACQVTEDCGACSTC LLQLPHDVASGLFCKCERRRCLRIVERSR GCGVCRGCQTQEDCGHCPICLRPPRGL RRQWKCVQRRCLRGKHARRKGGCD SK MAARRRPGAQPLPPPPPSQSPEPTEPHPR ALAPSPPAEFIYYCVDEDELKRLPSVWS ESEDGAGSPPPYRRRKRPSARRHHLGP TLKPTLATRTAQPDHTQAPTKQEAGGGF VLPPPGTDLVFLREGASSPVQVGPVAA STEALLQAVDPGLPSVKQEPDPPEEDKE ENKDDSAASKLAPEEEAGGAGTPVITEIFS LGGTRFRD TAVWLPRSKDLKKPGARKQ
2909	10960	A	385	933	1511	QVYRPSQTPHLALSPERVAPGRLAGGRL APEARAPRGSP/LPPHRVSEKTIRVMVFH PGARRAGGTPPRAPRGDTGGAPGAPTY STPLMSLHRARLESSSTGSSFPADSAKPV PLAVVSLDSR*GQWESRSSIHA\VTN*AS SSSSSSSSSS\FSR\YPRFIEFLHFDIQSTG Q/RITSRQHPPR/DFRDALF*LNS
2910	10961	A	3850	1	391	SPLNKVQLINELNEREVQLGVANKVSW HSEYKDSA WIFLGGLPYDLTKGDHICVF SQQRSTIVAVDNFNIGIKIKGRTIRVDHVS NYRAPKDSEEIDDVTRQLQEKGC GARTP SPSLSESSEDEKPTKKP
2911	10962	A	3851	1	135	
2912	10963	A	3852	18	238	
2913	10964	A	3853	254	1424	

2914	10965	A	3854	8	1015	FLSAEREPELNNPLTKVKLINELNEREVQ LGVADKVSWHSEYKDSA\WISLG\GLPY ELTEGDIICVFSQYGEIVNNLVRDKKT GKS\KGFCFLCYEDQQRSTILAVDNFNGIKI KGRITRVDHVS\NYRAPKDSIEDDVTR QLQEKSGGARPPSPTLSESEDEKPTKKH KKDKK\EKKKKKKEKEKADREVQAEQP SSSSPRRKTVKEKDDTGPKKHSSKNSER AQKSEPREGQKLPSRTAYS\GGAEADLER ELKKEPKHEHKSSSRREAREEKTRIRD RGRSSDAHSSWYYWRS\EGRSYRSRSRS RDKSHRHKRARRSRERE\SSNPSDRWRH
2915	10966	A	3855	299	374	
2916	10967	A	3856	1	993	
2917	10968	A	3857	3009	3583	LFCLFFHILQPSHCWISEMVVQLSDSLTD LLDKFSNISEGLSNYSIIDKLVNIVDDLVE CVKENSSKDLKKSFKSPEPRLFTPEEFFRI FNRSIDAFKDFVVA\SETSDCVVSSTLSPE KGKAKNPPGDSSLHWAAMALPALFSLII GFAFGALYWKKRQPSLTRA\VENIQINEE DNEISMLQEKE\REFQEV
2918	10969	A	3859	880	1196	SPTRRGTPGTCLKPTACAGAA*PGCSA RRTCASAAPLSTCPPSSCAAPPAPAAVP STPRPTSPSPAAPASPSRRRTQTASTPA STNRAPSSCWAPTTRPLAP
2919	10970	A	386	15	466	GVPNNFIINKNKTPSGWLQPLPRWL*AP VGGACHYPGLEARTEERAPCPSKYTGEP EVLRIKNQGGTPRPGGGPGPSAPRGFSL WST/PGSCPSITPHSLPAAR/PLPPTRHPA PSSPPCTE/SAPSGPSSSQAPGITVAPGISQ VQRAAALR
2920	10971	A	3860	305	631	IEKISLEPKNRPSQIPNLVGP/RLFLVPGD FQSQVPNLF\PFKPSSGPHPAAGKGQPFSE LPAWRSTGPERATPGGRPAACSALEAP SLRGPSCGYSAQEPPRRPISARI
2921	10972	A	3868	980	1498	VSLNQLVLRQSLEQVTETFTSYFKPSCQ/ PPTSPIRAMKWTELRLSCLPAGRQHYL LPATPPCSVRGVHKG\PTVPPAAPSPTSA QSHQPASHPLSSPTFLFEPIKDAGTHASLF SRDRHLFPFPTCHIRRPQPCLSPPHCSQGS RTGRAVTAALRMAAAAAMTGNQSPTRI
2922	10973	A	3869	94	484	AAAALAAASLLLRREDPGPGAGPSMAE TEALSKLREDFRMQNKS\VFILGASGETG R\VLLEILE\QGLFSKVTLIGRRKLTDFE EAYKNVNQEVGGLLSLDDYASAFQGH DLGFC\CLGYHQEGKAGGG
2923	10974	A	387	50	481	FMEYLTLSFIHVLLQ*FIHCFVHLFIHSFF YALMKSLIQ*FIHLYSCF/ICIDLLISSCIYS FIYALVKSLANSLTHSFIHTFLQ*FVHLFT PLLICSFTHSSIH*PSHSLTFIQLHLFFHAL VSGFIWSFIYLFCKINVFLIDK
2924	10975	A	3870	302	1187	TALVPRDKDWQSPDTLKTGICRCYFPSM AETEALSKLREDFRMQNKS\VFILGATVE TGRVLLKEILEQGLFSKVTLIGRRKLTDF EEAYKNVNQEVVDFEKLDDYASAFQGG HDVGFCCLG\TTRGKAGAEGFVRVDRD YV\LSAELEKAGGCKHFNLLSSKGADK SSNFLYLQVKG\VEAKVEELKFDRYSV FRPGVLLCDRQESRPGEWLVRKF\FGSLP DSWARGHSVPVTVVRAMLNNVVRPR DKQMELLENKAIHGPGGKRHGSSQGH HTGRNGFYLFNLNTHDQIG
2925	10976	A	3871	71	335	PTRSTSSGSYMKRRSGSCSP/MISDTSVV LSMDNSRSSRAVVVKIETRDGKLVSES SDVLPK*TAAAAPSLPLLRC\RAWEGG RYAW

2926	10977	A	3872	35	450	DIECESMH*EDIRKHTEMENEFALIKKD MDEAYKNKVELESHLEGLTEEISFLTQL YEEEIRELHVPDLGHICGAVH*QQLPGH EQHHR*GQGTVRGDROPOPG*G*EHEIK YEELQTLAWKHGMTRGAQRLRSR
2927	10978	A	3873	2121	2371	LENQSPRHVYSLSLKSKNDVMLL/DTAI FCPEATSEALDVVTSWASEAGTEELAFG FGLVSLSYCKLSTSLSVASSFVGDWL
2928	10979	A	3874	29	3977	AEVAHARWERCFFSPTPFLWGCFRDRLL PGRACFRRLRAGRLKRGSYNCSQLWLCV EKALAMDRSGFGEISSPVIREAEVTRTAR KQSAQKRVLQASQDENFGNTTPRNQVI PRTPSFRQFPTPKSRSLLRQPDISCILGT GGKSPRLTQSSGFFGNLSMVTNLDDSN WAAAFSSQRS\GLFTNTEPHSITEDVTISA VMLREDDPGEAASMSMFSDFLQSFLKHS SSTVFDLVEEYENICGSQVNILSKIV
2929	10980	A	3875	597	1088	GCQRQVVPWRPPLQRAQDMAWQLL EYQELMNIKLALDIEIATYRKLEGEESQ LDSGMQNMSIHTKTTGGYAGGLSSAYG DLTDPGLSYSLGSSFGSGAGSSSFRSTSS RAVVVKKIETRDGKLVSESDVLPK*TA AAAPPSLPLLRCPRAWEGGRYAG
2930	10981	A	3878	1	2474	MPGYSALSINKPMLETTQMSITRGMGKL LVVRCGTEKAGPAVPGMEGPRSSSTHV PLVLPVLLVLLLAPARQAAAQRCPQACI CDNSRRHVACRYQNLTEVPDAIPELTQR LDLQGNLLKVIPAAAFQGVPHLTHLDR HCEVELVAEGAFLRGLRLLLNLASNHL RELQAEALDGLGSLRRLELEGNALIELRP GTFGALGALATLNLAHNALVYLPAMAF QGLLRVRWLRLSHNALSVLAPALAGLP ALRRLSLHHNELQALPGPVLSQARGLAR LELGHNPLTYAGEEDGLALPGLRELLLD GGALQALGPRAFAHCPRLHTLDRGNQ LDTLPPLQGGPQLRRLRLQGNPLWCGCQ ARPLLEWLARARVRSDGACQGPRLRG EALDALRPWDLRCPGDAAQEEEELEERA VAGPRAPPRGPGRGPGEERAVAPCPAC VCVPESRHSSCEGCLQAVPRGFPSDTQ LLDLRRNHFPSPVRAAFPGHLVSLHL QHCGIAELEAGALAGLRLIYLYLSDNQ LAGLSAAALEGAPRLGYLYLERNRFLQV PGAALRALPSLFLSLHLQDNAVDRLAPGD LGRTRALRWGL/HLSGNRITEVSLGALGP ARELEKLHLDRNQLREVPTGALEGLPAL LELQLSGNPLRALRDGAFQPVGRSLQHL FLNSSGLEQVGTGHLAGLVQEAQGH QRAFTQQAFASPLVPGLGPGQLSLHLQK NQLRALPALPSLSQLELIDLSSNPFHCDC QLLPLHRWLTGLNLRVGATCATPPNAR GQRVKAAAASFEDCPGWAARKAKRTP ASRPSARRTPIQRKTVWTR
2931	10982	A	3879	1	531	ETPSSEPMEEEEDDLELFGGYDSFRSYN SSVGSESSYLEESSEANEDREAGEL/H DLPAFAAQPWDSSLLGWQWF*ASCL/LR CVVSWVQGPSSPRPRGSAASPAPGATP PTPRKPVSWLGYRENHRPKPKSCTRLP GLPKLEPSSTLKGQDSWQMGHQDKTL WSWASTGGSS

2932	10983	A	388	119	1533	KKMNLAEICBAKKGREYALLGNYDSS MVYYQGVMAQQDSRDIAQSVQRSLSK GKWPTFRFGQELLAEYEQVKSIVKHFKK VFKIDKPSQISPVLSR*THLEIPAVWPTA VPAEHRAPPQIRR/QRSRKTSEERNGRS RSPGTCRPSTSYIKE*/NSLLQVGTRTIEPE GGDDKGRKNMQDGASDGEMPKFDGAG YDKDLVEALERDIVSRNPSIHWDDIADL EEAKLLREAGVLPWMPDFFKGIRRP WKNDSONLGKPYSAQDDIGMNIVGPL THGFSSASAAPETTRQPLLFLLLSLSKV KTFKGVLVVGPPGTGKTLAKAVATEC GTTFFNVSSSTLTSKYRGESEKLVRLLE MARFYSPTTIFIDEIDSICSRRTSDEHEA SRRVKSELLIQMDGVGGALENDPSKM VMVLAATNFPWDIDEALRRRCFIWVG FPDVPQEKDTSVSPESCLLTDWWWGL
2933	10984	A	3880	143	606	NKYTDYCQLLKKSKGVDDKKGKTASSLP EGSQSISREHLPAQSWLPWACLLWLPA LL/HDEMOMRKQLPGLRSRAHSARQVR W/PCREAAAGCRMQRQASHLKSPEGKFH GHFLNTRVGRAGGNPHRPGKKWLLPSS VYVCNTEHCLWGAWCPKPNG
2934	10985	A	3881	253	514	
2935	10986	A	3882	950	1612	IIPILASVTQPQKQPAWKTGTGKGPQVS ISITEKVKSMQYDKQGIADTWQVVGTV TCKCDLEGIMPNVTISLSLPTNGSPLQDIL VHPCVTSLSAILTSSSIDAMDDSAFSGP YKFPFTPPLSFNLCFYTSQSVIDDQPSKL LLNDGIGELMGFNWSNRSCGQVGSNQY AYCMPYAADQRTWRRGAWTSKYRNKN ALYTFVKRFSHLRKQREKNPYP
2936	10987	B	3886	146	326	MDESAPLCRTLGRVDSDDPGLIPGCAS GPLAVPESEQKVHERKSLHWDGLTVSL VRAQX*
2937	10988	A	3887	575	828	CYPKVGRKPIKGEGEAPGAREKKNFAAE KRGLIPHGRKCLPISPCTGTRGPWCPCSS SGCASADTCTPRGALGAQKPIRESNF
2938	10989	A	3888	3	267	AMVGGGGVGGGLENANPLIYQRSGER PVTAGEEDEQVPDSIDAREIFDLIRS*AW PLTPQPAYWYPGPSSCQGCYRCFLES LTMRN
2939	10990	A	3889	1	942	
2940	10991	A	389	293	805	KARDKSPFLGDLCLKDTGQQSLLQCRFF PFLGTKISCFQNVHSWQTITSDGLSAGDG GFGPKYQ/RSRGQIPSGLSPLNSSESDL LPTPHFPLQSQGLGSQVAQIDVKAAPPF PAEPQPKRLRSPRPLGAIESVAVSRSLP SGPTGTDAL*WLSVQKPPTRTIHGNE
2941	10992	A	3890	3	470	AMVGGGGVGGGLENANPLIYQRSGER PVTAGEEDEQVPDSIDAREIFDIRRCWAR AGSGGLRWGEQ*YRAAGGAASQQGV GRGF*VGKGAESLFLHFPQLIRFLNDP HSLTLEELNVVEQVRVQVSDPESTVAVA FTPTISHWSMGTIGVC
2942	10993	A	3891	2	604	ARSHRISGGGSAMVGGGGVGGGLENAN NPLIYQRFGEVPVTAGEEDEQVPDSIDA REVFDLIRSHQMTPEHPLTLEELNVVE QVRVQVSDPESTVAVGFPKPTHSGTCR HGPPLIGLSIKVKLLRSLPSAFSRWDVA HLLPGDPLPQEHAVEQATLQKEAGWAT ALGRTHHLLVVMQCLSSPAPGTWAFV PLSLA
2943	10994	A	3892	73	204	

2944	10995	A	3893	1	846	QGANMPRYAQLVMGPAGIVKSTYCAT MVQHCEALNRSVQVNNLDPAAQHFNYS VMADIRELIEVDDVMEDDSLRFPGNGGL VFCMEYFANNFDWLENCLGHVEDDYIL FDCPGQIGVVTLTWPVMMKQLVPALEQ WEFRVCGVFLVDSQFMVDHSRFSIGHLA AALSAWISLEIPQVNIMTKMDLLSKKA KKEIEKFLDPDMSLLEDSTSDLRKAKN SRKLDLKAIMWDLIGWTYSLVRI/IPYD QSDEESMNIVLQHIGFAIQYGEDLEFKR NPKEREE
2945	10996	A	3896	1	1319	MDYGLLCGQQLVPQVEPVIQRGHESLV HHILLYQCSNNFNDSVLESHECYHPNM PDAFLTCTETVIFAWAIGGEGFSYPPHVGL SLGTPLDPHYVLELVHYDNPTYEEVLDA EKYKYKVLASDEGLLTGHNMAVGFTW WKGLIDNSGLRFLYTMDIRKYDAGVIEA GLWVSLFHTIPPGMPEFQSEGHCTLECLE EALAEKPSGIHVFAVLLHAHLAAGRIRL RHFRKGKEMKLLAYDDDFDNFQEFQY LKEEQTILPGDNLITECRYNTKDRAEMT WGGLSTRSEMCLSYLLYYPRINLTRCASI PDIMEQLQFIGVKEIYRPVTTWPFIIKSPK QYKNLSFMDAMNKKFKWTKKEGLSFNK LVLSLPVNVRCSTDNAEWSIQGMTAL PPDIERPYKAEPVCGTSSSSSLHRDFSIN LLVCLLLSCTLASTKSL
2946	10997	A	3897	1	394	
2947	10998	A	3898	1	150	
2948	10999	A	3899	708	911	
2949	11000	A	39	132	370	SNSPA*PSGEPGTMG/CRPPCPVNFGLRK NGVPPCGPGGPKSPDLRTHPLGPPKG/RG IPGGTHCPGPPLGFKKPWPGRV
2950	11001	A	390	2	428	GLPGSTTASAAAASASSDAPSFQLG KPRLQQTsfYGRFRHFLDIDPRTLFTVE RRLKEAVQLLEDYKHGTLRPGVTNEQL WSAQKIK/SGYIPFGTPIVVGLLPNQTLA STVFWQWLNHSHNACVNYANRNATKP SPA
2951	11002	A	3900	1	1349	MAAGQRRSSLRSLGSQFINCDPECQLSC LVGLEVQKEEVIRAAEGWKRAAPAGLR PTNYSNRQASEGRVVIAGNQSYQSRASP RPLARWKASANGRAPIAEPAVAVAGLG AGSGKRRRGWKMPVHSRGDKKETNHH DEMEVDYAENEGSSSEDEDESSSVSED GDSSEMDDCERRRMECLDEMSNLEK QFTDLKDQLYKERLSQVDAKLQEVIVE RAPEHLEPAGNLQENMQIRTKVAGIYR ELCLESVKNKYECEIQASRQHCESEKLL YDTVQSELEEKIRRLIEDRHSIDITSELW NDELQSRKKRKDPFWDKPPGVVSGP YIVYMLQDLDELDWTIKNAMATLGP RVKTDPPVKLEKHLHSAISEEGRLYYDG EWYIRGOTICIDKKDECPTSAVITTINHDE VWFKRPDGSKSKLYISQLQKGKYSITFII MI
2952	11003	A	3901	38	383	
2953	11004	A	3902	252	526	

2954	11005	A	3903	777	1719	LLTLTFPRCSVAQPLPFTGGTSVSWALL ALHVAVVFLLFAGAAGCVATLLHDAAM NPAEVVKQRMQMYNSPYHRVTDVCRA VWQNEGAGAFYRSYPTQLDHDVFFQAI HFMDLWNSCRSTLTPKRSYNPDSHFFSG LCAGAVAAAATTPLADVCKTLLNTPGVL GFELTHYRTYQGMASAFRTVYQVGGV TAYFRGVQARVIYQIPASTAIASVYEFF KYLIHLKGQEEWRAGKVKLALNESPVG QDDTDASWSHSLSPGMLPPQVELKGKE KGLSPTDFGVLNTSSCQPLPPFPPLPGP KHVQQSTPQHL
2955	11006	A	3904	1	1788	MLQQGAILEAETKPSPTDKYTSALIFNFP ASTADLGKTKRPAVEEKETPNKTRAQSL FLAKERRQDPFRPGLSALPLVKMAAIG GAAHSEGRRLPCRPRPFTSRPPRSRLDA LQVQRDQSDGAALFGQPLQGRAGLSER PCQTERGKKPQQRQLSNRLQTAFRRGPL GSGFQLRWSCRGCNVNAARSPGSAQR SRSREPLLGPWPGRGWQLCESLKKIA KGWVSQDPSRQLKECGQSASTSPRTPY SQDLLQHPKLEVAADPRTRGTREPAAL VERLEMLSGAGSVVDAVPLLVRRRRR RRRRHSAQRALAAAAAAASEPLDCQM RLCASLGVFSTAPSSSACRADITDCVSG AGGEMVPRRVLADQLTEEQIAEFKEAFS LFDKDGVDGTITTKELGTVMRSLGQTQT EGVELQDMINEVYADGNGTIDFPVFLTM MARKMKD TDSEEEINRESFRVFAKDNG YISAAELRHVMTNLGEKTTDLEIVDEMI READIDGDGQVNYEEFVQMMTGKMED LTFQLPFPSPLEESNWNLLLTLLQKKEKK KKVHLFHSCFLYSKTECQKYL LVHTHQ NLHVLVGGPVP
2956	11007	A	3905	1	351	GPPRPPTPPLKPIRGATARPPRSR*PRS DIPPLSRVLVARPPSPPLGKPLWIMGRP RPPIAPLARAPMGRPNRAWMLLP RR CF KLFEGNRQCSSRGCHHGSGRRAGDRP NLS
2957	11008	A	3906	3	345	SCRCRRKAGKGRPGEQTDRPTRQPTSNN ELSSHTTAYASNQPP*LTRAPPSTQVRP VPGPPAGAVVAVPGGALASVSFDSRDSK TAAQSSEVGALPPHQDV TICAVRAAT
2958	11009	A	3907	3	387	RPLQTKGRKGQAGFGRSPARLPEPWWQ PREEH/WASVSFDSRDSKMAAQSAKVV LKSTTKMSLNERFTNMLKNKQPTPVNIR ASMQQQQQLASARNRRLAQMMENRPSV QAALKLKQKSLKQRLGKSN
2959	11010	A	3908	565	719	GRDVT PRSKPAPRWTSRSPNGLKKRW CSRSWRSWERGPR*SSALGKSNIQARL/ WPTHRGPGQGSNRRTRPTPYSREALPRE GLRGGRATENPT*GRDVT PRSKPAPRW SRSPNGLKKRWCSRSWRSWERGPRAW SYGSWRNRW
2960	11011	A	3909	299	557	ADGSADLDSQRSSNELSSHTTAYASNQP/ LHLANPSPSTSQLRFRPVAVAVPGAVG GSPREEHLASVSFDSRDSKMAAQVSSEK LC
2961	11012	A	391	3	297	
2962	11013	A	3910	1	420	
2963	11014	A	3911	2	437	
2964	11015	A	3912	10	250	
2965	11016	A	3913	2824	3156	SNEGVKGLSRQKAWTADYNFCLGGNCH FSGFYFSDSCYSSYRRCRTCCDFCNSG RNCSGFWFGLCCTILCSD*SSFLISRSTW TPGLAIIPTRLLIT*TLISWSTV
2966	11017	A	3914	1	70	
2967	11018	A	3915	42	140	

2968	11019	A	3916	4594	4848	HIYCE*SLYLPAC*DLDDGDLDLECELAR LRDLVYDLE
2969	11020	B	3917	565	1161	MYHGWVPDLHIHAEDTLLPFYLGEKDD VTYAIKPTCWPGLDIIPSCALHRIETELM GKFDEGKLPTDPHMLRLAIETVAHDYD VIVIDSAFNLGIGTINVCAADVLIVPTPA ELFDYTSALQFFDMLRDLLKNVDLKGFE PDVRILLTKYSNSNGSQSPWMEEQIRDA WGSMVLKNVVRETDEVGKDLHALLVR L*
2970	11021	A	3918	3	226	LSVLFCCFGVESNFNFYVYSCCVFMATS QTFICMHTYSLIEMIVIHYNLEFF*ISKM ATIAVLGFLRLDIYHV
2971	11022	A	3919	1469	2806	CGSPPFATSSFFALS GHVLF AKLCTMVAP KLRSWMYAVYGALAVMGTMGPWYLLL LLGHCVGLYVASLLGQPWLCGLGLAS LASFKMDPLISWQSGFVTGTFDLQEVLF HGGSSFTVLRCTSFALSCAHPDRHYSL ADLLKYNFYLPFFFFGPIMTFDRFHAQVS QVEPVRREGELWHIRAQAGLSVVAIMA VDIFFHFFYILTIPSDLKFANRLPDSALAG LAYSNLVYDWWKAAVLFGVVNTVACL DHLDPPOPPKCITALYVFAETHFDRGIND WLCKYVYNHIGGEHSAVIPELAATVAT FAINTLWLGPCDIVYLWSFLNCFGPQTL KLWVPKTGQKWGPPKHEIEGLLCQVQ MSRRVRALFGAHELSPIMYNLVSLN SLAKFTELVARLLLTGFPTTSLFVITY CGVQLVKERERTLAEEEEQKQDKKKPE
2972	11023	A	392	1	885	
2973	11024	B	3920	54	316	TIWDGEETVYCFKERSRAALKACYRGN RYPTPDEKRRLATLTGLSLTQVSNWFKN RRQRDRTGAGGGAPCKRKLPQGQPCVW QPHRDG*
2974	11025	A	3921	1	2219	MATLPAEPSAGPAAGGEAVAAAAATEE EEEEARQLLQTLQAAEGEAAAAAGAGA GAAAAGAEGPGSPGVPSPPEAASEPPT GLRFSPEQVACVCEALLQAGHAGRLSR FLGALPPAERLRGSDPVLARALVAFQR GEYAELYRLLESRPFAAHHAFLQDLYL RARYHEAERARGRALGAVDKYRLRKKF PLPKTIWDGEETVYCFKERSRAALKACY RGNRYPTPDEKRRLATLTGLSLTQVSNW FKNRRQRDRTGAGGGAPCKSES DGNPT TEDESSRPEDLERGAAPVSAEAAAQGSI FLAGTGPPAPCPASSILVNGSFLAASGSP AVLLNGGPVIINGLALGEASSLGPLLLTG GGGAPPPQSPQGA SETKTSVLDPQTG EVRLEEAQSEAPETKGAQVAAPGPALGE EVLGPLAQVVPGPPTAATFPLPPGPVPAV AAPQVVPLSPPPGYPTGLSPTSPLLNLPQ VVPTSQVVTLQAVGPLQLLAAGPGSPV KVAAAAGPANVHLINSGVGVTALQLPS ATAPGNFLLANPVSGSPIVTGVALQQGKI ILTATFPTSM LVSVQLPAPGLALPLKPE TAISVPEGGLPVAPSPALPEAHALGTLSA QQPPPA AATTSSLSLFPSPDSPGLLPNFP PPPEGLMLSPAAVPVWSAGLELSAGTEG LLEAEKGLGTQAPHTVLRLPDPDPEGLL LGATAGGEVDEGLEAEAKVLTQLQSV VEEPLEL
2975	11026	A	3922	185	478	VSDTLWALAGLAAGRWAGGCQTLGLQ GVVQGLGLLINGPRAGAAPLSLGNLHPP SAARWHPS*AASHTGTGQSLVGIVEPHN PTSSGG*RPGTAGRSQ

2976	11027	A	3923	74	593	RGWVMWVDEPQALVLSPYERQLNLDA SVQHLEDGDGKRKRSSSSPRSNKKAKA LDNSLQPKSLAASSPPPCSQSPCEEKP QGVKPHEGPRGPLSASGVPGQPWPGQ GG/WWGAAGRVAEPRTESREPVSGAGT SSRSPSPTGFRQPPHPSARPSRAAPGQR GWAGDRR
2977	11028	A	3927	1	2936	MALMFTGHLLFLALLMFASFTEESVSN YSEWAVFTDDIDQFKTQKVQDFRPNQK LKKSMLHPSLYFDAGEIQAMRQKSRASH LHLFRAIRSAVTVMLSNPTYLLPPPKHA DFAAKWNEIYGNNLPPLALYCLLCPEDK VAFEFVLEYMDRMVGYKDWLVENAPG DEVPIGHS�TGAFATDFLYNLLDNHRR QKYLEKIWVITEEMYEYSKVRSWGKQL LHNHQTATNMIALLTGALVTGVDKGSKA NIWKQAVV
2978	11029	A	3928	2	512	
2979	11030	A	3929	1	399	
2980	11031	A	393	2	674	SCPLSCTSAATGLWVKEGLRIVSSVLLGL SCPWGSPLAELDLGEG/RLWRTSFYGR FRHFLDIIDPRTLFTERRRLREAVQLLED YKHGTLRPGVTNEQL*SAQKISQAIYHP DTNEKIFMPFRMSGYIPFGTPIVVGLLLP NQTLASTVFWQWLNQSHNACVNYANR NATKPSPASKFIQGYLGAVISAVSIAVGL NVLVQKANKFTPATRLLIQRFVFPFAV
2981	11032	A	3930	1	1812	NRRTRP GCGVVTCTYRREFIQRKLEAAL NVHDGCVNTICWNDTGEYILSGSDDTKL VISNPYSRKVLTTIRSGHRANIFSAKFLPC TNDKQIVSCSGDVIFYTNVEQDAETN RQCQFTCHYGTTYEIMTVPNDPYTLSC GEDGTVRWFDTRIKTSCTKEDCKDDILIN CRAATSVAICPIPYLAVGCSDSVVRU YDRMRMLGHKELQGNVAGRGVTTGIGLP RFISLPHLNNKSCRVTSLCYSEDGQEILV SYSSDYIYLFDPKDDTARELKTPSAEVER REELRQPPVKRLRLRGDWSDTGPRARPE VSEERDGEPESPMCPLMQRMSDMLSR WFEEASEVAQSNRGRGRSRPGGTSQSD ISTLPTVPSSPDLEVSETAMEVDTPAEQF LQPSTSSTMSAQAHSTSSPKESPHSYSFC YFLPDS\DQRQSVEASGHHTHHQSEFLR GPEIALLRKRLQQLRLKKAQQRQQELA AHTQQQPSTSDQSSHEGSSQDPHASDPS SVVNKQLGSM SLDEQQDNNEKLSPKP GTGEPVLSLHYSTEGTTTSTIKLNFTDEW SSIASSRGIGSHCKSEGQEEFVPQSSVQ PEGDS
2982	11033	A	3931	1	1878	
2983	11034	A	3932	2	202	
2984	11035	A	3933	9	111	SRQAWHEASNYGPMKSGNFGGIARNMG GPYGGGNL
2985	11036	A	3934	297	611	QWGLRFMNGVLSGGLSVQTASPPSASR RHFPSLGVGDGELSHGGRCPAGVKVGR GGGNSYSLSKARCFGGHGVSSASVSAGS RSS*ARLSFSPSLTGTGFGGGR

2986	11037	A	3935	14	1276	KSGGTALAAVRAAPGPVRRCSSQSCFSS SGSSHYSARTSPVRVRPRRSLSSRSAAGN RAEATESAMEKTLETVPLERKKREKEQF RKLFIGGLSFETTEESLRNYEYQWGKLT DCVVMRDLASKRSRGFCFVTFHSIGLE VDAAIASRPHSINGEVVEQKRAVAREE SGKPGAHVTVKKLVGGIKEDTEEHHLR DYFEEYGKIDTIEIITDRQSGKKRGFGFVT FDDHDPVDKIVLQKYHTINGHNAEVRK ALSQEMQEVQSSSRSGRGGNFGFGDSR GGGGNFGPGPGSNFRGGSDGYGSGRGF GDGYNGYGGGPGGGNFGGSPGYGGGR GGYGGGPGYGNQGGGYGGYDNYGG GNYGSGNYNDFGNYNQGPSNYGPMKS GNFGGSRNMGGPYGGGNYGPGSGGSG GYGGRSRY
2987	11038	A	3936	827	2064	QRRRVPCGAPRRVVSRAAAVLTTAPG RVRFVVRGDLSHLARLREIGLKRLSPR WREKKKQFRKLFIGGLSFETTEESLRNY YEQWGKLTDCVVMRDPASKRSRGFGFV TLSSMAEVDAAAMAARPHSIDGRVVEPK RAVAREESGKPGAHVTVKKLLVGGIKE DTEEHHLRDYFEEYGKIDTIEIITDRQSG KKRGFGFVTFDDHDPVDKLDLRKYHTI NGHNAEVRKALSQEMQEVQSSSRSGRG GNFGFGDSRGGGGNFGPGPGSNFRGGSD GYGSGRGFGDGYNGYGGGPGGGNFGGS PGYGGGRGGYGGGPGYGNQGGGYGG GYDNYGGGNYGSGNYNDFGNYNQQGS SYGPMKSGNFGCWRNMGGPYGGGNY GP/GGSGSGG/YGGRSPILKLLPICHGAS LV
2988	11039	A	3937	36	320	GPGRWVVVDEVTMWLELEQYPVSFLKQ PFEIGRHLDLPKGTYGICVNMCPGNKSC/ PRGKRCQSNCGHVCKVVPETSKSQPLR CSQGKMTHWSSL
2989	11040	A	3938	3	713	
2990	11041	A	3939	1	519	
2991	11042	A	394	485	1044	HLVPLCPCNLSKAGRCTVQERLLVICCS RSWRWRNLM*RWLNYPVSSGHRH*SS LARETSVDPDMRKGPAGAEGKGKAVGC KGVSQETAAYWKRTSSSLEPTWLLTN KPMFFGFRNLFAPTFRHTPEALWLPTPC HRGSPALHIEAFMPAALPSGTASCELPCH WPYQLSGVLCCAPWVIKEA
2992	11043	A	3940	1	966	MGHHLMDKLVALGGLYYAIQRHYATK CSVLKNDQILVIGLFMIQNVIYRKHFANP LSALFLQQGIELFAAIAEIHITVAERNHA ITQIRLEAQTIFDSLKEWHNAIRKSLDYE ALQAFEFVRVATDRGFALSSSEALVRVL VLDANDNSPFVLYPLQNGSAPCTELVPR AAEPGYLVTKVVAVDGDGSGQNAWLSY QLLKATEPGLFGVWAHNGEVRTARLLS ERDVAKHRLVVLVKDNGEPPRSATATL QVLLVDGFSQPYPPLPRAAPAQAQADSL TVYLVVALASVSSLFLFSVLLFVAVRLC RRSRAAPVGRCSV
2993	11044	A	3941	1	2783	RILSVDDFVELNVSSLVAVAEGIGYRDL DSNMKKLGRIHPNRQVLAFLMVFLSQV RLEPIRYSVLEETESGSFVAHLAKDLGLG IGELASRSARVLSDDDKQRLQLDRQTGD LLREKLDREELCGPIEPCVLHLQVVLE MPVQFFQGELLIQDINDHSPIFPEREVLL KILENSQPGLTFLPLIAEDLDVGSNGLQK YTISPNSHFILTRNHSEKGYDPLVQDK PLDREEQPEFSLTLVALDGGSPPRSGT
2994	11045	A	3942	383	703	NRITPTSARINLSILVPSAINNGSMTEIN RTVISGTPRQNSIKMTDKIRTIGIWERRPG VVVLTTCIMV*HLTSAIANRLNLLRKL

						RMVIFSHRLK VSSMKSA
2995	11046	A	3943	1887	3072	NFVMCHGEPWLAGRTVVPVSTLSGPEL ALQKLGKTPLGRYLFSTLTRDFIEIGR DAGLWGRSRLRLSGKPLLLTELFYRRH RCTKRKKICDCISANVWAVLKTVEAAGS DRPVQCLTITAVQRE RD TQSLSVITAELE PVSSPHFIREAGQYGTGRSSKEREVQPVV QRSFSNWIRNNGDICE LSPTSGDHPPPS GPGLYSARKAIMQHYQARGMRDVTVED IYIGNGVSELIVQAMQALLNSGDEMLVP APDYPLWTA AVSLSSGKAVHYLCDESS DWFPDLDDIRAKITPRTRGIVINPNNTG AVYSKELLMEIVEIARQHNLIIFADEIYD KILYDDAEHHSIAPLAPDLLTTFNGLSKT YRVAGFRQGW MVHRFFT PRLTVQAI
2996	11047	A	3944	623	2587	SPRKG G G K G K K A N R V L L T G A P L D P I D L S QSAVSHSVKEL/ENHTGVRLLDRTTREV VL/TDAGQQLALRLERLLD/ELNSTLRDT GRMGQQLSGKVRVAASQTISAHLIPQCI AESHRRYPDIQFVLHDPQQWVMESIRQ GDVDFGIVIDPGPVGDLQCEAILSEPFLL CHRDSALAVEDYVPWQALQGAKLV LQ DYASGSRLIDAALARNGIQANIVQEIGH PATLFP MVAAGIGISILPALALPLPEGSPL VVKRITPVVERQLMLVRRKNRSLSTAAE ALWDVCNCAIQPFFTATRCIGSVTVKLV LVPVGKSEFLAAQHKVVTCPAGDIAV VASVIGLICITLSKERFEPPTAAGEIVADT VQEHIVVEIHAIRRTVGAIRMQVEIKSGV TQAYLQLGINEKLGLSGRPDRPIGCLGTS KIYRILGKTVVCYPIFDLSDFYMSQDVF LLIDDIKNALQFIKQYWKMHGRPLFLVLI REDNIRGSRFNPILDMLAALKKGIGGVK VHVDRLQGPLENDLVVHVVALIAESQRLQ VFLNTYGIQTQTPQQVEPIQIWPQQELVK VTLGAFGHEEEVISNPLSPRVIQNIYYKC NTHDEREAVIQQELVIHIGWIISNNPELFS GMLKIRIGLQNECSLVIQVSTIIPAT
2997	11048	A	3945	102	2392	RKQMNYS LKQLKVFTVAQEKSF SFRAG ERIGLSQSAVSHSVKELENHTGVRLLD R TTRAVVLT D A G Q P L A L R L E R L L D E L N S T LRDTGRMGQQLSGKVRVAASQTISAHLI PQCIAESHRRYPNIQFVLHDPQQWVME SIRQGDVDFGIVIDPGPVGDLQCEAILSEP FLLCHRDSALAVEDYVPWQALQGAKL VLQDYASGSRLIDAALARNGIQANIVQ EIGHPATLFP MVAAGIGISILPALALPLPE GSP LVVKRITPVVERQLMLRVDLRFAQK FQIGDRKILRSGNNAVNVLPAATCGFPFP VCCWRFA YGCCSALLRIPRLYSVFIHSL LYGFSRAHISSPGACWVFIHERFGQFMY GLYPHDQRWRINLALLIGLVSIAPMFWKI LPHRGRYIAAWAVIYPLIVWWLMYGGF FALERVETRQWGGTLTLIIASVGIAGAL PWGILLALGRRSHMPIVRILSVIFIEFWRG VPLITVLFMSSVMLPLFMAEGTSIDKLIR ALVGVLFSAYVAEVVRGGLQALPKG QYEAESLALGYWKTQGLVILPQALKLE TVRQPQTLAMEEINCHHNYVQKEQHFG EEIYVTRKGAVSARAGQYGIHPGSMGAK SFIVRGLGNEESFCSCSHGAGRVMSTRK AKKLFSVEDQIRATAHVECRKDAEVIDEI PMAYKDIDAVMAAQSDLVEVIYTLRQV HSCRAGETGAVAPASDRGKG DGNLRS NRGRRGAGVAASALPARHRARGRLPLC YR
2998	11049	A	3946	2	331	

2999	11050	A	3947	3	116	
3000	11051	A	3948	3	162	
3001	11052	A	3949	181	804	RPLPRIGCCGPGAGQVGEARSPRVSLCF APCRLLRAGGGRALRRRGPPTGPVARP SYSSFTQGDSWGEGEVDEEEGCDQVAR DLRAEFIMGQWSEPRKLSVLPDRNGS PVLDPKRNIGFPGSGRQGPESLRRWPFQ VLSILCSLLFAILLAFLLAIAYLIVKELHA ENLKNEDDVTGLLGFWTLLIISLTAGIL LLQLFLGQ
3002	11053	A	395	901	1213	SQHFRPRWADHLRSGV*DQPGQHDET PSLLKIQKLAGYSGEHL*SQLLRRLRHEN CLNPGSGGCSEPRLLHCTPAW/VAEPDS VGGGVGGKEKNNTSNMLQTRP
3003	11054	A	3950	1	149	
3004	11055	A	3951	1	1896	
3005	11056	A	3952	3	275	
3006	11057	A	3953	2	395	
3007	11058	A	3954	1	209	
3008	11059	A	3955	466	3315	EMVPRWAIYQGFQDCLVHHASSRASGL WKLNPCRGLRCPDTRLPTSRWPNRDTR SASTQLLGKQSLPPAPEADPVFLPQEENE PPSPLVSGIIDYNMPLTSTYLKQMKLRV MNSQEQAGSSPTPIQTERHTAQLLLTAD QTLVLPATQHYVVLKKFPRPGAEDIMSG GPTLEAAEFDDLIGKCLPDRPIAGSVRLG DRIWNPRGSPRRRCRLHGQCVPGSGLER RPRDYPITLQLWLARRQDPARCGLAEHN DR
3009	11060	A	3956	11	755	ETHAPPSGVWGLERPSHPADQEIAGGQG QTAPAWEKPHSHPTPKSCGDQTKTLTHT ERREDKPSFTRAGWGWENLKGPPVTEG AGSPGGSSHGAGLNRDHPLQSQPGRRAI PWPQRAPTHMLFSMTRGQSPGAAPGAQ PEISKLAGYKKQKKQRSCLRKCHP/QE AGHRQRVASAGPGLQGEAAGEGRGEG AFWLKARNISKYSSLGINIPPNGGAQGSC LGKVGCRRHDPRHSGLSAPFPRPMSQAL
3010	11061	A	3957	175	559	VKRQLRRLRRSPWPDEKPKGVKTENN DHINLKVAGQDGSVEQFKIKRHTPLSKL MKAYCEVRQGLSMKQIKIPDFDGGQVNE TDTPATVGKWKDERYQLMVFQQARPG GVYLLKRELCFLYSQNSVSF
3011	11062	A	3958	140	380	
3012	11063	A	3959	98	426	LLTPSSAALKGESVQWHLREAGQSLPR RLTCAGWNKRFLHWIDQLSG*QTCLLL VVFVWIATE*LGESLPL*APIGGTQPW*F LIGAMKKHQETGENDHFNSPGPSH
3013	11064	A	396	110	1012	KTTRGYTLLHCAAAWGRLETLKALVEL DVDIEALNFRERARDVAARYSQTECVE FLDWAGLNPGTATHDSDEEAFLTRVW STGHNDSGVKQRMGQKEIQNATSSNH TCPSSVTLQRKKGV*FVGLLW*FRNVSTL LMKTFLPQARNSPETPSGTITTITGKIC RMYFWSYMESEGPPESERAEFFSQEEE NEEEEAQEPEETGPKNPLLPALTGDVE GLQKIFEDPENPHHEQAMQLLEEDIVG RNLLYAACMAGQSDVIRALAKYGVNLN EKTTRGDTLLHCAAAWGRLETL

3014	11065	A	3960	234	1050	ARTLKRRWKVCKTVIGRKVQTMKILETL RISALLWEEVLLLGLKDKEGYTSFWND CISSGLRGGILIELAMRGRIYLEPRTMRK KRLLDRRVLLKSDSPTGDVYWDETLKH IKATEPTETVQTWIELLTGETWNPFLQY QLRNVREERIAKNLVEKGILTTEKQNFLLF DMTTHPVTNTTEKQRLVKKLQDSVLER WVNDPQRMDKRTLALLVLAHSSDVLEN VFSSLTDDKYDVAMNRAKDLVELDPEV EGTKPSATEMIWAVLA AFNKS
3015	11066	A	3961	1	1074	MEPIGARLSLEAPGPAPFREAPP AEELPA PVVPCVQGGGDGGGASETPSPDAQLGD RPLSPKEE/CRPPGAGGAAGMPPLPRAL LFLARRPHL/VRRPSSCSSSSNRWHWA A/SGAEDAQLGPGGCCAKCKKRVQFAD TLGLSLASVKHFSEAEPPQVPPAVLSRLR SFPMAEDLEQLGGLLAAA AAVAPLSAP PSRLRPLFQLPGPSAAERLQRQVCLER VQCSTASGAEVKSGRVLSCGPRAVTV RYTFTWRSFLDVPAELQPEPLEPQQPEA PSGASEPGSGDAKKEPGAECFHFSLCLPP GLQPEDEEDADERGVAVHFAVCYRCAQ GEYWDNNAGANYTLRYARPADAL
3016	11067	A	3962	42	424	
3017	11068	A	3963	3	899	PPNVFSPASLPFFPAEGGPGRSRWREGG YLSQSRSGRLSQEEAASRSAGGMAGAPD ERRRGPAAGEQLQQHVSCQVFERLA QGNPQQGFFSFFTSNQKQRLRLKLTLET NPYVKLLLDAMKHSGCAVNDRHFSCE DCNGNVSGGFDASTSQIVLCQNNIHNQA HMNRVVTHELIHAFDHCRAHVDWFTNI RHLACSEVRAANLSGDCSVLNEIFRVQ FGLKHPPQTCVRDRATLSILAVRNISKE VAKKAVDEVFESCFNDHEPFGRIPHNKT YARYAHRDFENRGRVYYSNI
3018	11069	C	3964	165	347	
3019	11070	A	3965	871	1194	EFVFFFETESFSVTQLECSGHNGLGHCN LHLPSSNAPASASRVARITGAHHHARLI FVFLVEMGFHQGTGWAMLVLKLPDIQVIC PPWPPQSAGIYRHEPQHPRGK
3020	11071	C	3966	54	197	MVLSSFNFQKAIKLALLKYFKISFQLPPF YVHKIGCRHSHFAMNVS**
3021	11072	A	3967	263	742	SRSHDHLTYTVVPSPWNFALRISNSK NEMFMSFLFREMKKKKLPSDSGDLEAL EGKDKEKESTVHIETHQNTSKNVA AVQP MKR\GQKSKMKMKMKEY* DQDEEDREL IMKLLGSAGSNKEEK GKKGKKGKTKDE PVKKQPQKPRGGQRVSDNIKKE
3022	11073	A	3968	189	1393	SHTDFPYDNSTDGGDTSSDEDKEEHETP VEVELMTQVDQEDITLQSGRDELNEELI QEESSEDEGEYEEV/REKDQDSVGEMKD EGEETLNYPDTITIDLSHLQPORSIQKLA SKEESSNSSDSKSQSRRHLSAKERREMK KKKLPSDSGDLEALEGKDKEKESTVHIE THQNTSKNVA AVQPMKRGQKSKMKM KEYKDQDEEDRELIMKLLGSAGSNKEE KGKKGKKGKTKDEPVKKQPQKPRGGQ RVSDNIKKETPFLEVITHELQDFC/AVDD P/HLIDQGKEPDLDDQGNEENLFDSDQ GQPHPEDVL/LGFAIPICAPYTTMTNYKY KVKLTPGVQKKGKAAKTALNSFMHSKE ATAREKDLFRSVKDTDL SRNIPGKVKSV CTQSSERKKEIAEMKF
3023	11074	A	3969	192	1510	
3024	11075	A	397	247	496	
3025	11076	A	3970	68	382	MSVPDEEERLLRLTQRWPRASKFLLSGC AATVAELGTRLPTPGPPGPVARAALGEE TAGAASRPGSAQSKRSPPSHARLAEVAV

						EARPRGGRRRDLEVSTAFSF
3026	11077	A	3971	3	1451	GAVRTWGRGFQTEKCQASLLNFWNPPT TAQVTIEAEPTKVSKGKDVLVHNLPO NLAGYIWYKGQMKDLYHYITSYVVDGQ IIYGPAYSGRETVYSNASLLIQNVTRDA GSYTLHIVKRGDGTGETGHFTFTLYRH SLDSALSLEVTGSSQPL*DTWENCPTLW LHCLMTELTSGLDVLPVISAEPSPRS GFPVSKGFKDNWKFHHPSLGCPWQGKL QRKHTSGGKVRLKLRRFQHCMLQVRTT SVETPKPSISSSNLYPREDMEAVSLTCDPE TPDASYLWWMNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRNPVSASRS DPVTNLNLLPKLPKPYITINNLNPRENKDV LAFTCEPKSENYTYIWWLNGQSLPVSPR VKRPIENRILILPSVTRNETGPYQCEIQDR YGGIRSYPVTLNVLYTTKHSGLYACSVR NSATGMESSKSMTVKVSAPSGTGHLPG NPL
3027	11078	A	3972	1	1008	
3028	11079	A	3973	3	1374	
3029	11080	A	3974	1	1854	
3030	11081	A	3975	1	1319	
3031	11082	A	3976	1	2247	
3032	11083	A	3977	1	1993	
3033	11084	A	3978	1	1006	
3034	11085	A	3979	3	1095	AQLTAVLRKFLDPRLISTEENTQAAETM GPLSAPPCTEHIKWGGLLVASLLNFWN LPTTAQVTIEAQPPKVSEGKDVLVHNL LPQNLTGWIYKQIRDLHYITSYVVD GQIIYGPAYSGRETAYSNASLLIQNVTR DAGSYTLHIKRGDGTGVTGYFTFTLYL ETPKPSISSSNLNPREAMETVILTCDETP DTSYQWWMNGQSLPMTHRFQLSETNRT LFLFGVTKYTAGPYECEIWEISASRS PVTLESP/RMGPDLPRIFFSSPLNYFRER NLGFVPGLGDF*TPPAQYSWTINGKFQ SGQKLFIPQITPKHNGLYACSAARNATGE ESSTSLTIRVIAPPGLGTFQ
3035	11086	A	398	653	1139	RPFPPHSESQNPQR/PDSSPTGTST*PA DTHCPRPVSQAQGGTAEG**PRVHG PLPHSIGSAPPQCQEGAPAGEWAREPGE DGVPGAPGQN*GKMEFSGAG/GQVPSR VVEGVQSHLRSEGPACPAVPCAAEGP DGRPGNTGRGGPGLRNORRWEW
3036	11087	A	3980	3	1442	IRADPAHELENCSCPGKRLSTERGRTAQ LTAVLREFLDPRLISTEENTQAAETMGL SAPPCTQRIKWGGLLTASLLNFWNLPT TAQVTIEAQPPKVSEGKDVLVHNLPO NLTGWIYKQMRDLHYITSYVVDGEI IIYGPAYSGRETAYSNASLLIQNVTRDA GSYTLHIKGGDGTGVTGRFTFTLHLET PKPSISSSNLNPRETMEAVSLTCDPETPD ASYLWWMNGQSLPMTHSLKLSETNRTL FLFGVTKYYLQDPIECEIRNPVSASRSDP VHPGISCPKLPKPYITINNLNPRENKDVL NFTCEPKSENYTYIWWLNGQSLPVSPRV KRPIENRILILPSVTRNETGPYQCEIRDY GGVRSDDPVTNLNVLYGPDLPRIYPSFTYY RSGEVLYLSCSADSNPPAQYSWTINEKF QLPGQKLFIRHITTKHSGLYVCSVRNSAT GKESSKSMTVEVSGKVDPKHRWQ

3037	11088	A	3981	79	1565	EASLLEDDDDMMVYLRPLTSHQYRTAQL RAMLRKFLDPRLSSTEENTQAAETMGPL SAPPCTQRITWKGLLLTASLLNFWNPPTT AQVTIEAEPTKVSKGKDVLVHNLQPON LAGYIWYKGQMKDLYHYITSYVVDGQII IYGPAYSGRETVYSNASLLIQNVTRDA GSYTLHIVKRGDGTGETGHFTFTLYLE TPKPSISSNNLYPREDMEAVSLTCDPETP DASYLWWMNGQSLPMTHSLQLSKNKR TLFLFGVTKYTAGPYECEIRNPVSASRSD PVTNLNLLPKLPKYITINNLNPRENKDVL AFTCEPKSENYTYIWWLNGQSLPGSV RVKRPINENRVLIPTCSRGIETGPYQCEI RDRLWVGLRSLPSSPWNVPLMGPDLPRI YPIYFTYLPFQGGKPSDLSWLSRES*PHR AGVFFWQGFNGGSFSGIQGQKLFIQITT KHSGLYACSVRNSATGMESSKSMITVKV SAPSGTGHLPLNPL
3038	11089	A	3982	1	2045	MLEAAVHAPGNSDVTRTRCATQVLKPL VSYGQAETGFSVPQLKYPPWDGLLRDI PPGTLPVEHSPCSLAALQFLNATSTHGE SAFARRKLESSFSQHSLQEGHRHGSRLSP SGAPVKDSGSRTAPGSRGGQHPSQLLL CGRDDLQASSGHGPFLLFPELPSPRDA LQLLREASKFPTDKRQGRSWSVAITNTA ATSLEWVPFHAFAPRSTLVSQQLSTER GRTAQLTAVLREFLDPRLISTEENTQAAE TMGTLSPAPPCTQRIKWKGLLLTASLLNF WNLPTTAQVTIEAEPTKVSEGKDVLV HNLQPONLTGYIWYKGQMRDLYHYITSY VVDGEIIIYGPAYSGRETAYSNASLLIQN VTQEDAGASYTLAHIKRRDGTGGVTGHF TFTLHLETPKPSISSNNLNPREAMEAVILT CDPATPAAGYQWWMNGQR/LSPMTHR LQLSKTNRTLFIQVTKYIAGPYECEIRNP VSAASRSDPVTNLNLLPKLPKYITINNLN RENKDVLFNFTCEPKSENYTYIWWLNGQ SLPVSPRVKRPINRILILPSVTRNETGPY QCEIRDYGGIRSDPVTNLNVLYGPDLPRI YPSFTYYRSGEVLYLSCFADSNPPAQYS WATINGKVFSLAQGQKLSIPQITTKHSGLY ACSVRNSATGKESSKSITVKVSDWILP
3039	11090	A	3986	212	461	TEEHLYSPHWKGCGRKVKRLFQVRRGR GWIQTRQPGSMVKEPPLSEAGAESHVSC /RQGDCSRPPSFPLSPERVTPWLPDSHTW

3040	11091	A	3987	1	2353	MRPPRAPVVPDLGGPRLCPVPAAGGAR SPSSPYSVETPYGFHLDLDFLKYIEELER GPAARRAPGPPTSRPRAPRPLAGARS PGAWTSSSLASDDGGAPGILSQGAPSG LLMQPLSPRAPVRNPRVEHTLRETSRRL ELAQTHERAPSPGRGLVREQMAAALRR LRELEDQARTLPQLQEQVRALRAEKARL LAGRAQPEPDGEAETRPDKLAQLRRLTE RLATSERGGRARASPRADSPDGLAAGRS EGALQVLDGEVGSLDGTPQTREVAEEA VPETREAGAQAVPETREAGVEAAPETVE ADAWVTEALLGLPAAAERELELLRASLE HQRGVSELLRGRLELEEAREAAEEAAA GARAQLREATTQTPWSCAEKAAQTESP AEAPSLTQESSPGSMDGDRAVAPAGILK SIMKKRDGTPGAQPSSGPKSLQFVGVLN GEYESSSEDTNDSGDSENGAEPPGS SSGSGDDSGGSDSGTPGPPSGGDIRDPE PEAEAEPPQVAQGRCELSPLREACVAL QRQLSRPRGVASDGGAVRLVAQEWFRV SSQRRSQAEPVARMLEGVRRLGPELLAH VVNLADGNGNTALHYSVSHGNLAIASLL LDTGACEVNRQNRAGYSALMLAALTSV RQEEEDMAVVQRLFCMGDVNAKASQT GQTALMLAISHGRQDMVATLLACGAD VNAQDADGATALMCASEYGRLDTVRL LLTQPGCDPISILDNEGPSALAVALEVAET GMKVAALLWAHLSSGHPDTQSGVTPLA PQTANTW
3041	11092	A	399	2	510	FLANFLCFIRD/GFHHVGDGLHLLTS*S ACGLPKCWDYRREPLRPTSPLLSRPHQ ALCCLAFGHSAACTCTCVN/SALAWAGF WNPQAPGF/SVAPAHLLTHTVSLSPMPL WATCSPGAGHEAPGLMLQDPFGPPWCS CGPVFHEKTAGCKARAFSGRVCRCKAQ ALPETGR
3042	11093	A	3990	53	364	RSKVEAGLAPEPGPLGARVGS/PGTRAR HGRPGVPAIGASIGPGCGPNEQVDEQAGP AQLQGPQGPAPRAIGFPHRLRGGSCKI KGDGPGVRRPGSDRLSSSSPT
3043	11094	C	3991	408	620	
3044	11095	C	3992	64	300	MDSSHSTTLXPTANPNTGLVEDLDRTGP LSMTTQQSNSQSFSSTSHGLEEDKDHT TSTLTSSNRNDGHRWKKRPKSF*
3045	11096	A	3993	1	530	
3046	11097	A	3994	1	436	
3047	11098	A	3995	3	1009	
3048	11099	A	3996	1	2226	
3049	11100	A	3997	2	1599	QPLPGSVRHRPVLRRPLPRAQSSSSFR PRPPFAPDTMDKFWWHAAGLCLVPLS LAQIDLNITCRFAGVFHVEKNGRYSISRT EAADLCKAFNSTLPTMAQMEKALSIGFE TCRYGFIEGHVVIPRIHPNSICAANNTGV YILTSNTSQYDTYCFNASAPPEEDCTSVI DLPNAFDGPITITVNRDGTTRYVQKGEYR TNPEDIYPSNPTDDDVSSESSSERASSTSG GYIFYTFSTVHPIDEDSPWITDSTDRIPA TNMDSSHSTTLQPTANPNTGLVEDLDRT GPLSMTTQQSNSQSFSSTSHGLEEDKDH PTTSTLTSSNRNDVTGGRDPNHSEGSTT LLEGYTSHYPHTKESRTFIPVTSKTSF GVTAVTVGDSNSNVNRSLSGDQDTFHP GGSHTHGSESDGHSHGSQEGGANTTSG PIRTPQIPEWLILASLLALALAVCIAVN SRRRCGQKKLVINSNGAVEDRKPSGL NGEASKSQEMVHLVNKESSETPDQFMT ADETRNLQNVDMKIGV

3050	11101	A	3998	245	1148	FPGSTPTPFAPDTMDKFWWHAAWGLCL VPLSLAQIDLNITCRFAGVFHVEKNGRYS ISRTEAADLCKAFNSTLPTMAQMEKALS IGFETCRYGFIEGHVVIPRIHPNSICAANN TGVYILTYNTSOYDTYCFNASAPPEEDC TSVTDLPNAFDGPITITIVNRDGTTRYVQK GEYRTNPEDIYPSNPTDDDVSSGSSSER ESTSGGYIFYFTSTVHPIPEDDSPWITDS TDRIPATRDQDTFPPQWGFPLPLHGSEFR WDTHMGSQGRWEQTQPLGPIRDT PNSQ NGLIHLGHPLALGL
3051	11102	A	3999	3	327	AGPGEVAGDGRDGGFAGGRRRCWLNW SGSGKSLRKGNPSVSIYCFCLPNHYLFDR N/SCLRSSAGTKSGSYPPQISSMLILVPP CVPQQTHPGLDLKTQKLSLLSALI
3052	11103	B	4	3508	3762	MTPGVVHASPPQSQRVPRQAPCEWAIRN IGQKPKEPNCHNCGTHIGLRSKTLRGTPN YLPIRQDTHPPSVIFCLAGVGVPGLPV*
3053	11104	A	40	25	412	IQARKKQQSVLGKTEDQGTNLLRKGI MDIEAYLERIGYKKFTSKLDFETLTDILS HQIPAVSFDNLTVLCGDAMD LGLEAIFD QAVR*NRAGGWNLQVNHLLYWALTIG YETTKIGRYGYQTPAEK
3054	11105	A	400	249	434	IVEYRGMWDYRLLFFF PETESCSVAQVG TQWHD LSSLQPLSPGSSNSPASAS*VAGI TGH
3055	11106	A	4000	8	280	SAQMAVTTADPRVRPRVRTTVFTSIAHT DTMVH LTPVEKSAVTALWAKVNVNEV GGEAPGQGCWVVLPLGPPKGPLKPFGGI CPNSLNAG
3056	11107	A	4001	405	647	
3057	11108	A	4002	405	606	
3058	11109	A	4003	1	849	
3059	11110	A	4004	2	1173	PQQSPEC DVLPVSVCSHWSIPTSHRLLR VLVTVECELYVRWPRCNADLTCTKAVQ NGWDL LKVP TCHLLLA VPGVGLFIDEG VKQGFSVETFRDTRGVLVHGCIMSCLCN NRVRPYLGKKQKSKKTTDVGVVEVEESG RGCAAGAEVFQCMQQGSHSAAEGQES SSKVESGRHSYNLYLWVISPRTPASLQN LQILKCIRFWTWHEERFLYMLMEYVPGG ELFSYLRNRGHFSSTGLFYSAEII CAIEY LHSKEIVYRDLKPENILLDRDGHIKLTD GFAKKL AYRLMWKSLLSEKRWWVRCG GEAKER*Q*QFGWVPASRKVRS*SQDT CPHHRKQGR LRTWTL CGTPEYLAPEVIQ SKGHGRAVDWWALGILIFEMLSGWVL
3060	11111	A	4005	149	1358	APPSHCLCVSVSRAEPRTRRRGRAWGAS VDA AAAA APPSEASRGVRLPERSGLAR RPGPECLPMEAPGPAQAAAAESNSREVT EDAADWAPALCPSPEARSPEAPAYRLQD CDALVTMG TGTGRVHLVKEKTAKHFF ALKVMSIPDVIRKQEQHVHNEKSVLKE VSHPF LIRLFWTWHEERFLYMLMEYVPG GELFSYLRNRGHFSSTGLFYSAEII CAIE YLHSKEIVYRDLKPENILLDRDGHIKLTD FGFAKKLVDRTWTL CGTPEYLAPEVIQS KGHGRAVDWWALGILIFEMLSGFPPFFD DNPFGIYQKILAGKLYFPRHLD FHVK/DG ANDVNHRWFRSVDWKAVPQRKLKPI VPTIAGNGDT SNFETYPEHDWDTAAPVP QKDLEIFKNF
3061	11112	A	4006	1	683	

3062	11113	A	4007	521	1163	SQDTCPHHRKQGRRLRTWTLCTGPEYLAP EVIQSKGHGRAVDWWALGILIFEMLSG AFPKHVSSNASPGLQNWGRFPFFDDNP FGIYQKILAGKLYFPRHLDFHVKCQTPK EKQKTKNKVIFLHARHQKQNKTNNNNN SNNKMKFIKNGANDVKHHRWFRSVDW KAVPQRKLKPPIVPTIAGNGDTSNFETYP EHDWDTAAPVPQKDLEIFKNF
3063	11114	A	4008	181	1448	APPSHCPRRSVSRAGPRTTRRRERAWGAS VDAAAAPPSEAAASREARLPERSGLARCP GPECVPM EAPGLAQAAA AESDSRKVAE ETPDGAPALCPSPEALSPEPPVYSLQDFD TLATVGTGTFGRVHLVKEKTAKHFFALK VMSIPDVIRLKQEQHVHNEKSVLKEVSH PFLIRLFWTWHDERFLYMLMEYVPGGEL FSYLRNRGRFSSTTGLFYSAEIIICAEYLYH SKEIVYRDLKPENILLDRDGHKLTDFGF AKKLVDRTWTLCTGPEYLAPEVIQSKGH GRAVDWWALGILIFEMLSGFPFFDDNP PFGIYQKILAGKLYFPRHLDFHVKDILK KLLVVDRTTRRLGNMKNANDVKHHRW FRSVDWEAVPQRKLKPPIVPKIAGDGD TSNFETYPENDWDTAAPVPQKDLKIFKNF
3064	11115	C	4009	3	167	MPMXAQIEEPQPIQVKTTRTNLRLTQLRE QDQTQKCLCPLYNQAPRKKFLLLWA*
3065	11116	A	401	532	986	PWAKLGLSCVPAWQVQVLAICRWKEVG ILDFFLVFFFLR*SL/DSDTQAGVQWC DLGSLQTPPLPGFKWFSCLPSSWDYRH APPRSADFCIF/M*RWGFTMLAKLVSNS* PQ/CDLPASASQSAGITGVSQCTRRNLGIF IDGTSVSDSSRT
3066	11117	A	4010	1	2195	MDPGTLQSASQGPTAINPCDYVLKRRNI QTSWQRLTPIKWHVYILMIGPGEKEAG RNLGIFGKWTFPKIPAKRLRESNCPVDA QEIWLPQAFREYLGRRGNGFGPGRRTCEF WEVESICSVESWELWLRQADSGDSGKC SPDACGIIDTSGLRAGHCYLRWLHVSG RIPPSFKLHHPGVCKFPKVGGKMTTFKE AVTFKDVAVVFTEELGLLDPQRKLYR DVMLNFRNLLSVGHQPFHQDTCHFLRE EKFWMMGATQREGNSGGKIQTELESV PEAGAHEEWSCQIWEQIAKDLTRSQDS IINNSQFFENGDVPSQVEAGLPTIHTGQK PSQGGKCKQSFSVDVPIFDLPQQLYSEEKS YTCDECGKSICYISALHIVHQRVHMGEKC YKCDVCGKEFSQSSHLQTHQRVHTGAEK PFKCGIQCCKGFSRRSALNVHKLHTGE KPYICEACGKAFIHDSQLKEHKRIHTGEK PFKCDICGKTFYFRSRLKSHSMVHTGEK PFRCDTCDKSFHQRSALNRHCMVHTGE KPYRICEQCGKGFGRDLDFYKHQVVHTG EKPYNCKEKGKSFWRSSCLLNHQRVHS GEKSFKCEECKGKFYTNSQLSSHQRSHS GEKPYKCEECKGYVTKFNLDLHQRVH TGERPYNCKEKGKNFSRASISILNHKRL H/SPEKNPFKCEDCGKRLVHRTYRKDQP RDYSGENPSKCEDCGRRYKRLNLDILL SLFLNDT
3067	11118	A	4011	1	4559	MDGAKAFFSAVAAGFVILTCQLQWQW QHGGVHAHQLWQLASGYRDACFCVST YSSGPSEFPPTLGTNLALDLEERKHR RKAKVWKGEGGGLRSPRQSLAFAVL ASRGTRSCHVSPYLGVSALSSPNPHPT TGAGPIPPVQRWGLPQINQKNREIAIPLT LGMSTHLRRGCKNMSRFSPLHCCTTPIS TNFTDPGSHCKGAHGDIQLIQLKAL PMSINRSYFNAHPLLQISEAVTFKDVAV VFT

3068	11119	A	4014	1	1387	FRAASGRETRAALGASQCLTPHPLPRVG GGGASGGGLRGAGQAWSAMSSPDAGY ASDDQSQTQSALPAVMAGLGPCWAES LSPIGDMKVKGEPANSGAPAGAAGRA KGESRIRRPMAFMVWAKDERKRLAQQ NPDHNAELSKMLGKSWNA/LTLAEKRP LVEEAERLRVQHMQDHPNYKYRPRRRK QVKRLKRVEGGFMHGMDEPQAAAMGP EGGRVAMDGLGLQFPEQGFAPGPLLP HMGGHYRDCQSLGAPPLDGYPLTPDTS PLDGVDPDPAFFAAPMPGDCPAAGTYSY AQVSDYAGPPEPPAGPMHPRLGPEPAGP SIPGLLAPPSALHVYYGAMGSPGAGGGR GFQMOPQHQQHQQHQQHPPGPGQSPSP PEALPCRDTGTDPS/QPAELLGEVDRTEFE QYLHFACKPEMGVLPYQGHDSGVNLPDS HGAISSEVSASSAVYYCNYPDV
3069	11120	A	4019	77	407	ESDGGKRKKKSRGDPSQLEEKISKGCPQ RRKKPRLYRPSNYNRAFRRMR/ARLPT RTSPETRTPQPHSPHSVPERTPTPPGRPP FLGAGQLQRLFMGIPQVGDCCPPSS
3070	11121	A	402	2	992	FVDAAGCPLRCSVVTGIVVLQKSGNRPE DLRAAQLPGRLELLNNFCSAMSPAPDA APAPASISLFDLSADAPVFQGLSLVSHAP GEALARAPRTSCSGSGERESPERKLLQG VLWTISEKLCSTCDQTFQNHQEOREHY KLDWHRFNKQRLQGGQPLLSALGL*KA ELHRRSFPAFSGIRRIQDSASEEDLQTL RERATFEKLSRPPGFYPHRVLFQNAQQQ FSLCLPLCPR/LLIRIPQKRQNLTLRTLS RGPRDCVVLMAAAGHFAGAIQGREVV THKTFHRYTVRAK/QGHSQGAFG/NARG GPSHSAGANLRIRYNEATLYKVS
3071	11122	A	4020	20	463	
3072	11123	A	4021	572	1594	SSDWKRTMSWIKELSLWERFCANIK AGPMPKHIAFIMDGNRRYAKKCQVERQ EGHFTGFKQLAETLRWCLNLGILEVTYV AFSIENFKRSKSEVDGLMDLARQKFSRL MEEKEKLQKHGVCIRVLGDLHLLPLDLQ ELIAQAVQATKNYNKCFNVCFAYTSTRH EISNAVREMAWGVEQGLDPSDISESL DKCLYTNRSPHPDILRTSGEVRSLDFLL WQTSLSCLVFQPVLPWEYTFWNLFMAIL QFQMNHSLVQKARDMYAEERKRQQL RDQATVTEQLLREGLQASGDAQLRRTRL HKL SARREERVQGLQALELKRADWLA RLGTASA
3073	11124	A	4022	2	365	
3074	11125	A	4023	1	464	RRWRICSTWTRSFATAWLPPAPSANFPR TDRSQGDRGAPAGFALAPILEFFLWDT'S SQKFLQKPHCFMHGRERAKMGRRAQQE SAQAENHLNGKNSSLTLTGETSSAKLPR CR/QGGWAGDSVKASKFRRKASEEIEDF RLRPQSLNGSDYGGDIP
3075	11126	A	4024	254	662	
3076	11127	A	4025	3	392	MKYSAIQTLDEIDLKLLTKVLAPHEV R*VQWWQQFPLSTLAIPINPAELPGLAL CLP*RPWNGREKVSQREKALSYP KPFLEDDVGWDWDHLFTEVSSEVLTE WDPLQTEKEDPAGQARHT
3077	11128	A	4026	63	779	GPIRGPWGPFGGWWGGATPPAPTSRRL RAAGLAPRRRAKMGRRAQQAQSAQEN HLNGKNSSLTLTGETSSAKLPRCRQGGW AGDSVKASKFRRKASEEIEDFRLRPQSL NGSDYGGDIPNPDLEEVQEEDFVLQVVA APPSIQIKRVM TYRDLNDNLMKYSAI QTLDEG/IDLKLL/TPKVLAPHEVRER NPSWQDDVGWDWTHLFTEVSSE/VSFT EWDPIOTEKEDPGGOARHT

						EWDPLQTEKEDPGGQVARHT
3078	11129	A	4027	2	311	
3079	11130	A	4028	1	136	
3080	11131	A	4029	2	170	
3081	11132	A	403	2583	3827	DRVSLLLPRLECNGAILAHCNLCL/SGFK *FSCLSLPSNWDYREVPPHQLIFVFLVE MGFHHIAQAGLELLTS/SI/PPTLA/FPKC WDYRR/DHHAWLFFFCSENSFTLLPRLE *GGLISDHCNLRLLGSSDLPASASQEPRL QACATTPR*FLYFW*RRGFTMLARLVN S*PQV/HPPASASQSAEIIIGVSHHTWPQEV FLFLNLFYLRWSLALSPRLECSDGISAH CKLRPPGSSVLLPQPPE*LGLQAPATTPG* FFCIFS RDGFSPC*PGGS*SPDLVICLPRPP KVLGLQV*ATTPGYFYFFETGTHSVTWA AVQWYTIAHCSLELLSSDPPTSSSQVIG TTGAPHHALHLYLFIYLFIFIEMRVPV QAGLELLSSRDPAWASQSAEITGMSHR AQLGHFKAPRMSV
3082	11133	C	4030	64	276	MCKALGTPYSPQQQLGTEASSVHRTC WHLLGQGSAAARXXXXXXXXXXXXXXXXXX XXXXXXXXXSIDPTTQG**
3083	11134	A	4031	3	295	
3084	11135	A	4032	3	279	
3085	11136	A	4033	3	392	RIRHEAAAKGAAAMSAHLQWMVVRNC SSFLIKRNKQTYSTEPNNLKARNSTRYN GLISPARLWGVEPAADGKGVVVIKRR RSGQRKPAITSYLRTTINKNARATLSSIR HMIRKKNKYRDLAHGHAGI
3086	11137	A	4034	2	562	VAAAKGSRRLQCLRHQWMVVRNCSSF LIKRNKQDPTALSPNNLKARNSTRYNG LIHRKDCGTWSRSADGKGVVVIKRR SGQRKLATSIVAGPPSTRNARSHASGR HQ/VHIDPARNKLPPPTCRMGSPPFRAQR PFLAQAGRLVDWLKEGRDPAPPRSLK PLGPQKQLKSAGVFSKKKKKSR
3087	11138	A	4035	1	139	
3088	11139	A	4036	1	299	VGIW*PVTNFGVISGTAKIEMD*G/TPYIH ALTNGLLTVEAPHK/ERIALKPGYGKYL INSDELVV/GRSDAIGPREQWEPVFQNDG HPVMRMNSLOLKATI
3089	11140	A	4037	796	911	AMA*YSYVKSSKLVLKGTSSKKKSTDK KRKREDEETQLD/IVGIW*TVTNFGEISG TJAIWNGRKGTYIHALDNGLFTLGAPHK /ERIALKSGYGKYLGINSDGLVVGRSDAI GPREQCEPVFQNGKMALLASNSCFIRC EAGDIEAKSKTAGEEEMIKIRSCAERETK KKDDIPEEDKGNVKQCEINYVKKFQSFQ DHKLKISKEDSKILKKARKDGLHETLL DRRAKLEADRYCK
3090	11141	A	4038	193	754	EPSRGVWPHEARINGSKKKKSKKKR KREDEETQFD/IVGIW*TVTNFDEISGTI AIEMDEGTIHALDNGLFTLGAPHKEGK MALLASNGCFIRCNEAGDIEAKSKTAGE EEMIKIRSCAERETKKDDIPEEDIGNVK QCEINYVKKFQSFQEHKLKISKEDSKILK KAQKDGLHETLLDRGP

3091	11142	A	4039	213	919	YVQSLKQILS/GCI*ESIAIKKKKNKDKKR KREEDEETQLDIVGIWWTVTNFGESGTI AIEMDKGTIHALDNLFTLGAPHKEVD EGPSPPEQFTAIVKLSDSRALKSGYGKY LGINSDDLGVVGRSDAIGPREQWEPVFK MGKMALSTNSCFIRINHEAEDIEAKSKT AGEEEMIQGSP*SSVQPFHLLWTFAFILT QEHRSLLLKIRSCAERETKKKDDIPEEDK GNIKQCEI
3092	11143	B	404	1	336	MGRARWLTIVIPALWEAEAGGSREVEE YMGAEAVKSWTSSMFKEWDEKVRREK TSSRRARAAQCGGVFESPEYVHLLKVFL EDLDKQQQTNSKASRRQEIKIRAELEIK T*
3093	11144	A	4040	802	1463	AEATALENPLEESRPHEGARINGSKKKK SKDKKRKREEDEETQFD/IVGIWWTVIN GGISGTIAIEMDEGTIHALDNLFTLGA PHK/ERIALKPGYGKYLNSDELVV/GRS KAIGPREQWEPVFQNGACAAGFTVIGSE KQSECSLLRESRAKYHGCTHGQISSSLK QHPRWMYSHQEDLKVWSLVEKKVTFE HIYLLKRNNSHHSIAEAMYGRLSNYI
3094	11145	A	4041	879	1051	GGARYHFFFFFFFDGACSVTQAGVQWP ILGSLQPPPPRFKQFSCSLSPSSWDYRRD
3095	11146	A	4042	125	1366	RDSSSTLSHKSACACGFFPSTHKSCTF RFTSVRCLKYKSAKSFLHIGYREAAVWC CQRLVPCTRRTOESSLDFATNLQHSAWS RLCRRGASRTSSAARSRSRSPAVEGCNR SPGAPQAPARRRRPSRGAPGRAMVKV AFNSALAQKEAKKDEPKSGEEALIIPD AVAVDCKDPDDVVPVQRRAWCWCM CFGALFMLAGVILAGGAYLYKFALQPD DVYYCGIKYIKDDVILN/ESPSADAPAA LYQTIEENIKIFEERRSLNFISVPVPEFAD SDPAKIVQDFNQETYRPLYDFNLADKCY VIPLNTSMCYATPKTLELLINIKAGNLF ALSPYLDMSRHMGYLLDRIVENIDHPGF FIYRLCHDKETYKLAQRRETIKGIQKREAS NCFAIRHFENKFAVETLICS
3096	11147	A	4043	42	557	QAGKLRPGGLDSSRSRSSAAGLDRDQGL HRVAFLPKRRRTGGTRMDRSATAATAPP AAPAGEGGPPAPPNLTNSRRLQQTAAQ VDDVVDIMRVNVDKVLERDQKQSELDD RC/ADALQAGASQFETSAAKLKRYW WKNLKMMIILGVICAILIIIVYFQHLNP RGVCPA
3097	11148	A	4044	178	731	SSERCHQQVFIPMPALPPGFVSQAGSCVP TGSSLVLACLLAASLLFVPTLALLTGATT CWCLHNKRLAV/RRPLAWAGAFGLVS TRLIHGRTSFFYNSLPPLQTNSTCQNH SWDSGGRGDLWPPLAAPRRVGLDLCS QAHTCQQGADWIHALLCLMGVTGVPTA LPAKHLEQNTSPFVVDAAE
3098	11149	A	4045	3	155	
3099	11150	A	4046	100	448	WWEVKGMSHGQKNKQEGGAIFRACV CVMESHVTRLECSGAISAHCNRLQGS SNSPDSASRVAGTTSTRHEAQLIFVFLAE TGFHHVGGAALELLTSSDPPTSASQSAD MLYK
3100	11151	A	4047	151	461	RLTAAATASLCPLRPVTRLPLSRGSKM KEGMSNNSTTSISKPRKAVEQLKMEAC MDRVKVSQAAADLLAYCEAHVREDPLI IPVASENPFREKKFFCTIL
3101	11152	A	4048	1	447	
3102	11153	A	4049	553	1938	
3103	11154	A	405	2	313	FFFFLRRSLALSPRLECSGVISAHCKLRP GSR/RFSCLSLSHSWDYRRPPRPANFLY FLVEKGFHCVSQDGLHLLTS/AIPP/TSA/F

						PKCWDYRCDMFLMVSKD
3104	11155	A	4050	303	478	DCTSRPSLCPLSARCDVHGLSPGPVLR* GLIVIEDALPKSHSGGRGEVRQPWDFCG A
3105	11156	A	4051	458	964	DPRTMNLAIISIALLLTVLQVSRGQKVTSL TACLVDQSLRLDCRHENT/SAVSPIQYEF SLTRETKKHVLFGTVGVPEHTYRSRTNF TSKYNMKVLYLSAFTSKDEGTYTCALH HSGHSPPISSQNPVFRDHGVKICEGISL LAQNASWLLALLLSLSLLQATDFMSL
3106	11157	A	4052	411	557	YSTDELPNIKISTSGRLQWLMSIIPALWE A/EDQAGRSFEFRNLRLVWTT
3107	11158	A	4053	508	1220	PLPPAATPCPKQLGSQAWACRAARGA EQGVWGWWRKHPAPSRGRVDKGSTKQK DPSPAHTTSTLNYQMHSCH/KRRHTHT HTHTHTHTHTHTHQHNIPGGSPDQE EAGQVVEKKAANPSHNPTLQDRRVSSIL SCCKRKLEAPSEQISMVGPGRGSLWFP HWQRRQEPAKCSFGLKEQWGGDFSRM NRLMGPGVNPSTSPFWSRKLHKGKDV CWLHRHAKCLSARCPRIWRVW
3108	11159	A	4054	1609	1807	DRVWLLPRLEYSGMVSAHCNTHLLGSS QSPTSASQAAGTTGAHHYVPLVYIYIY ILGFLVETRFR
3109	11160	C	4055	169	297	MILEFHXXXXXXXXXGGGRFKEPLGGPNLP GAGKVLFFSLWGAD*
3110	11161	A	4056	270	614	PFKFILITQVIRDPLFSSEPYLGEKANHPP GFHHVKGQASHVCKTHPAPSCPP/PDC CLPCPSLGPAPHFRGCCMEFFPGKNFRC LDPFYLDNIFRFFCSLVTPGGKEIARTFF
3111	11162	A	4057	637	890	TKWAGSIVYLSFSFLHMFMSFLLV/STF LALCMLILVVLFLKLKLPKLFSELPLKL TFLPCELLHLHLFQDLAYFFFNGLRK
3112	11163	A	4058	3	297	ATAARPCPGLGRRAGESRGPBGHIGVRPG STLCQHATCHMSVNDGGCKYVLCRWE KRLWPAKVLARTATSTKNKRRKEYFLA VQILSLEEKLSVVLF
3113	11164	A	4059	2	1940	CPGLGRRAGESRGPBGHIGVRPGSTLCQH ATCHMSVNDGGCKYVLCRWEKRLWPA KVLARTATSTKNKRRKEYFLAVQILSLE EKVKVSTEVEILEKSQIEAIASSLASQNE VPAA/PPEELAYRRSLRVALDVLSEGI WSQESSAGTGRADRSRGKPMHVSSPC DSNSSSLPRGDVLGSSRPHRRPCVQSSL SSSFTCEKDPECKVDHKKGLRKSENPRG PLVLPAGGGAQDESGSRIHHKNWTLASK RGRNSAQKASLCLNGSSLEDDTERDM GSKGGSWAAPSLPSGVREDDPCANAEG HDPGLPLGSLTAPPAPEPSACSEPGECPA KKRPRLDGSQRPPAVQLEPMAAGAAPSP GPGPGPRESVTPRSTARLGPPPSHASADA TRCLPCPDSQKLEKECQSSEESMGNSM RSILEEDEEDEEPPRVLLYHEPRSFEVGM LVWHKHKYPFWPAVVRVSRQRDKKA SVLYIEGHMNPCKMGFTVSLKSLKHFD KEKQTLNQAQREDFNQDIGWCVSLITDY RVRLGTWGAGEGWSWAAGVQPLKTPW TGWAGAAWRRGIFPWA WGIPCGWAGV LAWPDYFLNRDAGPAPGTHFLGLLLGLH SALSPPPPAGCGSFAGSFLEYAADISKS TGCI

3114	11165	A	406	4565	5027	LIGYILFCFFFFFFFLRQSLVLLPGLECSG VILAHCNPR/LPGFK*FSCSLPSSWNYR HAPARPVSVFLAEMGFHHIGQAGLKL LT/SV/IPPTSA/FRKCWDYRREPPRTAF FVLNKFVTLGSNSGF*T*DRINHFMRLY CNYTLEYSGSHL
3115	11166	A	4060	1	2722	MERPLRGSRHPRLPVPPGVLGSPQGHIG VRPGSTLCQHATCHMSVNDGGCKYVL CRWEKRLWPAKVTAII/RVTSGLRNDFR VTKTSVTGPSILKYLVEFVTLNQRLTFK RQITDDQAAHCSAPIKVKSTEVEILEKSI EAIASSLASQNEVPAAPLEELAYRRSLRV ALDVLSEGSISQESSAGTGRDNRSRLRG KPMEHVSSPCDSNSSSLPRGDVLGSSRPH RRRPCVQQLSSSFTCEKDPECKVDHKK GLRKENPRGPLVLPAGGGAQDESGSRI HHKNWTLASKRGGNSAQKASLCLNGSS LSEDDTERDMGSKGGSWAAPSLPSGVR EDDPCANAEGHDPGLPLGSLTAPPAPEPS ACSEPGCEPAKKRPRLDGSQRPPAVQLE PMAAGAAPSPGPGPGPRESVTPRSTARL GPPPSHASADATRCLPCPDSQKLEKECQ SSEESMGNSMRSILEEDEEDEEPVRVLL YHEPRSFEVGMLVWHKHKKYPFWPAVS WDESTRGWISRLKAAFRTIALHIPKSNAQ NRCHLTSPSLRVPGAHLRSDQPKPSGPR CPPAFRPAQAIGSPVPTCVQISPSHRVPG AHLRSDQPKPSGPRCPPFEQLRAQTCAW CVSHLPEGPCARRLPEPPLSGRNQAREDF NQDIGWCVSLITDYRVRGCGSFAGSFL EYYAADITSRACPGALIPWATSSVSLLW LVAAHIRCCECRPGASFAGYPVRKSIQ QDVLGTKLPQLSKGSPEEPVVGCPQGQR QPCRKMLPDRSRAARDRANQKLVEYIV KAKGAESHLRAILKSRKPSRWLQTLSSS QYVTCVETYLEDEGQLDLVVKYLQGVY QEVGAKVLQRTNGDRIRFILDVLLPEAH CAISAVDEVYKTAEEKYIKGPSLKLPG KRNI
3116	11167	A	4061	57	235	
3117	11168	A	4062	754	1767	WTSWWMSSVLTILLFSLQGNKMLNYS PSAGGCLDRKAVGTPAGGGFPRRHSVT LPSSKFHQNLSSLKGEPALSSRDSR FRDRSFSEGERLLPTQKQPGGGQVNSS RYKTTELCPFEENGACKYGDCKQFAHG IHELRLSLTRHPKYKTELCTFHTIGFCPY GPRCHFIHNAEERRALAGARDLSADRPR LQHSFSFAGFPSAAATAATGLLDSPSTSI TPPPILSADDLLGSPTLPDGTNNPFAFSSQ ELASLFAPSMGLPGGGSPTTFLFRPMSES PHMFDSPSPQDSLSDQEGYLSSSSSHS GSDSPTLDNSRRLPIFSRLSISDD
3118	11169	A	4063	568	715	
3119	11170	A	4064	65	347	GLPAPLPPP/PPRSLPFPAPGLRSQRFSTSA PPRHARPPPVARARAAPHPQASGRKSQ VSAPLVERAPLRAPGLTATAVVTVLGDP ACAFPLEM
3120	11171	A	4065	1648	1974	KVFFCFYRIYVCICVCVCVCV/TLQTL/C YSIANMLTSSQCLQSCGSQSWCQMHKS SKAINTIPCKFISRKPWEGDCSSLEPHGV SAFDIWPQLCIKKVLNHFSPRKN

3121	11172	A	4066	12	1662	FLRGGCCFCYMTQCQRPSLRPTALLPERS VPPLPPAAPPVRPVRHPPVAAPPARRCPAP APPPFPDDWVMLDMGDRKEVKMIPK SSFSINSLVPEGLQNDNHHASHGHHNSH HPQHSHHHHHHHHHPPPPAPQPPPPRAA QQQQPPPPPLAPQAGGAAQSNDEKGPQL LLLPTDHRPPSGAKAGGCCRPGEGLP VGPDEKEKGAGAGGEEKKGAGEGGKD GEGGKEGKKNKGKYEKPPFSYNALIM MAIRQSPEKRLTLNGIYEFIMKNFPYYRE NKQGWNSIRDNLNLNCKFVKVPRHYD DPGKGNWMLDPSSDDVFIGGTTGKLR RRS/TTSRAKLAFKRGAAALTSTGLTFMD RAGSLYWPMSPFLSLHHPRASSTLSYNG TTSAYPSHPMPYSSVLTQNSLGNNSFSST ANGLEAWDRLVNGEIP/YTATHHLTAA ALAA/SVPCGLSVPCSGTYSLNPCSVNLL AGQTSYFFPHVPHPSMTSOSSTFMSARA ASSSTSPQAPSTLPCESLRPSLPSFTTGLS GGLSDYFTHQNQGSSSNPLIH
3122	11173	A	407	187	741	TRGTSAARTGRSSGIASMASGILVNVKE EVTCPICLELLTQPLSLDCGHSFCQACLT ANHKKSMMLDKGESSCPVCRISYQPENIRP NRHVANIVEKLREVKLSPEQKVDHCA RHGEKLSNFCQEDGEGSFCWVC*AVFR EHRGSPHVSSQRRFAREYQVKLQAAL MLRQKQQAEELEADIR
3123	11174	A	4070	1	507	
3124	11175	A	4071	259	1409	FLLWRYFVFGIVTEEKEKVQPTVYLIQLL DLLKAIT/SPHLEAGSKPSKKTGEKSSGS SSHSESKKEHHRKKVSGSSGELPLEDGV SHKSKKMKPLYVNTETLTREPDGLKM KLILSPKEKGSSSVDEESFOYPSQQATV KKSSKKSARDEQGALLGHELQSFLKTA RKKHKSSDAHSSVGPLKGLGLDASQ FRKSPHSANLDSLGLPILVESDSSSGGE LEAGELVIDDSSREIKKKKKSKSKKKK DKEKHKEKRHSKSKRSLGLSAVPVGEVT VTSGPPPSIPYAGAAAPPLPLPGLHTDGH SEKKKKKEEKDKERERGEKMGPSWKK ISSGLPLILHDGPWKNCFPNRYPVPKRL RTADLVGLYLGSQKHK
3125	11176	A	4072	436	2063	RRREVEGWYFGGFSHRRTVCIDTPDISS LESSQKKKKKSSPQSTDTAMDLLKAITSP LAAGSKPSKKTGEKSSGSFKAISGELKR EHHRKKVSGSSGELPLEDGGSHKSKKM KPLYVNTETLTREPDGLKMKLILSPKEK GSSSVDEESFOYPSQQATVKKSSKKSAR DEQGALLGHELQSFLKTARKKHKSSSD AHSSPGPEGCGSDASQFAESHANLDSL GLEPILVESDSSSGGELEAGELVIDDSYR EIKKKKKSKSKKKKDKKEKHKEKRHSK SKRSLGLSAVPVGEVTVTSGPPPSIPYAG AAAPPLPLPGLHTDGHSEKKKKKEEKDK ERERGEKPKKKNMSAYQVFCKEYRVTI VADHPGIDFGELSKKLAEVWKQLPEKD KLIWKQKAQYLQHKQNKAEATTVKRK ASSSEGSMKVKASSVGVLSPQKKSPTT MLLPASPAKAPETEPIDVAHLQLLGESL SLIGHRLQETEGMVAVSGSLSVLLDSIIC ALGPLACLTTLQPELNGCPKQVLSNTLD NIAYIMPG
3126	11177	A	4073	323	539	PFMICLVHFCAPGNPPSARPRSPSPRCH PCAPQEGKMTHPQFRVMPAPSCYNWLL ENVPFIIQNSGVRIS
3127	11178	A	4074	27	425	GGGSGPRAPSATLLDTGESVAAVASGED KGIAASAAAAAVFACSCSPDPQSSTMNP VYSPVQPGAPYGNPKNMAYTGYPTAYP AAAPAYNPSLYPTNSPSYAPATLVMKQ

						AWPQNSSSCGTEGTFHLPVDTG
3128	11179	A	4075	1	434	
3129	11180	C	4076	117	251	MVPGPSLQNSWQASFNIPWPALPKPDLG PSPSVSPVDIFCGACC*
3130	11181	A	4077	58	313	SSKQKNPKESKTTKQNQIYTSYTQARP WGFPIFTPGLCFENTYKFFDQTTWKTLV KSSSSSSSSSPILFLFKM*VPIKFKN
3131	11182	A	4078	1	279	
3132	11183	A	4079	54	946	GGGSGPRAPSATLLDTGESVAASGED KGIAASAAAAAVFACSCSPDQSSTMNP VYSPVQPGAPYGNPKNMAYTGYPTAYP AAPAYNPPLYPTNPSYAPEFQFLHSA YATLLMKQAWPQNSSSCGTEGTFHLPV DTGTENRTYQASSAAFRYTAGTPYKVPP TQSNATAPPYSPSPNPYQTAMYPISAYP QQNLYAQGAYYTQPVYAAQPHVIHHTT VVQPNISPAIYPAPVAAPRTNGVAMGM VAGTTMAMSAGTLLTTPQHTAIGAHPVS MPTYRAQGTPAYSYPVPPHW
3133	11184	A	408	1234	1337	TRGPRGPADSCRKAWSEKAWQRGWWS WCPAAGASGGCGLHPWLW/PPEPWVE RATPT*GPCSRTPAGSPLPGFLRPLPA AVCRPPGSPCSETVLF*EAE/PT/P*APVRI GGTFQPCAVLLPARMKVVQSSTVR*/VT VTRLPVQKVEVAGGWPGSHEKTL/AA/ PAWGLDRKPLQAPRSQKPPNPQGTAES GQRWAHRYKCCFVSLTPCSSQLPVP*DL ASKG*PSHT*ILGSF*DLCLPA*PMLQGPC POPLSAP*VFLFPLSL*VGALIGPFLARPF SRGQLP*AWATPPWPS*PLAK/SPPDVAC SLVPGPSFSPSHPSAPVVEPHL*APGALN VLSPLDLMCIPSPASYVAAKAPQAVNGG SCHTSLPELT*P/PATSCIGILRAGPCSLM GPPRPVKPW*RLACLLGNSQCLTPQPK TGSVPYGPAPVAWVP/ERLPPPGSP/PAP IKVLPLMQACVDHVFPWPEPPPATGGQL PF
3134	11185	A	4080	1	502	RHEGGMWRAGSMSAELGVGCALRAVN ERVQQA/VARRPR/DLSPSQPRLVAV/SA KTKPADMVIEAYGHGQRTFGENYVQEL LEKASNPKILSLCPEIKWHFIGHLQKQNV NKLGMKSEFLIKRENIMPRTELNSPFSGV IYTWETYPTSMFIIWWSFRKIKNCS
3135	11186	A	4081	171	1184	IPILIMKLLCCHKSSGDPPYLHLFAKSKH STLPFSLGLGVGPRGMWRAGSMSAELG VGALRAVNERNVQQAARRP/RGDLPAI QPRLVAVSKTKPADMVIEAYGHGQRT FGENYVQEL\LEKASNPKILSLCPEIKWH FIGHLQKQNVNKLMAVPNLFML\ETVG FCECLADKVNSSWQQRK\GSP\ERLKVMG PGFNTSREEIYLFVSLSLEGKHGLPPSETI AIVEHINAKCPNL\EFVGL\MTLGSFGHD LSQGNPDPFQLLLSLPEE/ICGKKLNIPAE QVELIMGMSADFOHAVEVGSTNVRIGST IFGERDYASKPTPDKCAADVKAPLEVA QEH
3136	11187	A	4086	1	265	AGNRLRFQLELEFVQCLANPNYLN/WYP QCLHMLELLQYEHFRKELVNAQCAKFID EQQILHWQHYSRKRMRLQQAIAKQQQ QNNTSGK
3137	11188	A	4087	1	987	

3138	11189	A	4088	1	491	RGFRNFARVSGLLLCQAGGVLVSSFVM AAAVAMETDDAGNRLRFQLELEFVQCY ANHNTLIFLPQRIGYFKDKAFVNYLKYL LYWKDPEYAKYLYKYPQCLHMLGAAPN MEHFRKEAGWNAQCVAKFIGWNRQVST LGKHYSRKRMRLLQALAEQQQNNTS GK
3139	11190	A	4089	55	858	EKGRARGRERRRKMQLTRCCFVFLVQG SLYLVICGQDDGPPGSEDPERDDHEGQP RPRVPRKRGHISPKSRPMANSTLLGLLAP PGEAWGILGQPPNRPNHSPPPSAKGKKIF GWGDFYSNIKTVALNLLVTGKIVDHGN GTFSVHFQHNATGQGNISISLVPPSKAVE FHQEQQIFIEAKASKIFNCRMEWEKVEVR GRRTSLFTHDPAKICSRDHAQSSSTWSVC SQPFKVVCVYIAFYSTDYRLVQKVCPCD YNYHSDTPYYPSG
3140	11191	A	409	89	596	IILKTGSSLCHPRLECSGVILVHRNLR/LP GSSNSPASGSPVA*ITGARHHDRLIFVFL VEMGFCYVGQAGLELLTSSDPPTSASQS AGVTGVSHCARPSFAL*F*KSA*YNLELC LFYHH*YSKCIHFHFLDYNQCNLITINIE SSLIFSILLISTFYCYLAIEPR
3141	11192	A	4090	1	368	MRARNLMTKLTVISRKEELQOEAAHR EVQSLPPGEMEERSSSKTCPQVCDGRILS CMIKVPP/VGREKH*RPRGRSH*HEAGCG PFTPPKVDHHEHLPPRRVEAGSRQKST TEPFPQAAGW
3142	11193	A	4091	253	536	YLASLEIPQSKVPESRPSHQVPSSQSLDSE TPPSN/RHRQPPVDRKCVCLPLPPPTF RPPKVDHHEHLPPRRVEAGSRQKSTTE PFPQAAGC
3143	11194	A	4096	318	543	KSSWSRWAFGTVRSPCGRQHRDIGATD NSGRSGPAEQRPQSS/ASSAMSAAGGSRL TFHPRNLPPRTPTQDSAALT
3144	11195	A	4097	42	342	ENEILEVVQLGSRVCVFHFYHLHCCRHH CPENVHAG/CFGDCLG/HGRCSIQNTFE R*I*VG*NNVAATAVMFGLVFPLVLSLK YQVYFFKVLALMNFCSSS
3145	11196	A	4098	1	1289	MYERVYVSTDIAIKLCKLLNRQFDRLY KKHSTGSASGEGLKALPLIVEGEGEVC AEITRQEREEGAVHLFGLTWQLQPVEGE LYANGVSKGNRGTESMDTTYSPIGGKVS DKSEKKVFQKGRAIDTGEVDIGAQVMQ TIPPGLFWRFQITIHHPIYLKFNISLAKDSL LGIYGRNIPPTHQFDFVKLMDGKQLV KQDSKGSDDTQHSPRNLLTSLQETGFIE YMDQGPWYLAFYNDGKKMEQVFVLT AIEIMDDCSTNCNGNGECISGHCHCFPGF LGPDCARDSCPVLCCGNGEYEGHGCVC RHGWKGPECDVPEEQCIDPTCFGHGT MGVCICVPGYKGEICEEEDCLDPMCSNH GICVKGECHCSTGWGGVNCETPLP/EQC SGHGTFLLDAGVCSDPKWTGSDCSTE HKGSSRLFL
3146	11197	A	4099	1	4509	VRLEWPTDLAVNPMDNSLYVLDNNIVL QISENRRVRIIAGRPIHCQVPGDHFLVSK VAIHSTLESARAVISVSHSGLLFIAETDERK VNRIQQVTTNGEIIYIAGAPTDCKIDP NCDCFSGDGGYAKDAKMKAPSSSLAVSP DGTLYVADLGNVRIRTISRNQAHLNDM NIYEIASPADQELYQFTVNGTHLHTLNLI TRDYVYNFTYNSEGLGAITSSNGNSVH IRRDAGGMPLWLVPVGGQVYWLTISSN G
3147	11198	A	41	319	1002	

3148	11199	A	410	372	639	RAFWQYFKSLNMFMSFDPAILLIGIYPKE KS*IQK/DTLCPEVSEILLMVVKNYN*YIC HTRNDQAGLIY/HLYSGIYLALK*VCEFF TLKG
3149	11200	A	4100	338	8522	SEMEQTDCKPYQPLPKVKHEMDLAYTS SSDESEDGRKPRQSYNSRETLHEYNOEL RMNYNSQSRKRKEVEKSTQEMEFCETS HTLCSGYQTDMSVSRHGYQLEMGS DV DTETEGAASPDHALRMWIRGMKSEHSS CLSSRANSALSLTDTDHERKSDGENGFK FSPVCCDMEAQAGSTQDVQSSPHNQFTF RPLPPPPPPHACTCARPPPAADSLQRR SMTTRSQPSAAPAPTSTQDSVHLHNS WVLNSN
3150	11201	A	4101	139	520	LSLPLSPRLECSGTILARCNLHSPPRSKR FSCLSLPSSWDYRRAPPNLAIFLLFLV EMGFHHVGGTGLELLASNYLPTSA/FPK CWDYRHEPPCPADKTNFLSLWFIGYNIF LESEVNFFLPWDA
3151	11202	A	4102	7	497	
3152	11203	B	4103	93	182	PPPKALRRELPEEAAAEEERRKIEVPSEIE *
3153	11204	A	4104	51	394	WGGPGLKPLLMVLDPYRAVALELOANR EPDFSSLVSPLSPRRMAARVFYLLVSV CMCVCVCGAGTQRPEARTGTPPTCPLLA S*PVLSAQQILHVKQEKPYGRLLIQGPR FH
3154	11205	A	4105	427	499	
3155	11206	A	4106	796	2482	KTRGNMFYYPNVLQRHNGCFATIWL ATRGSRLVKREYLRNVVKTCEEILNYV LVRVQPPQGLPRPRFSLYLSAQLQIGVI RVYSQQCQYLVEDIQHILYRLHRAQLQ MRIDMETELPSLLPNHLAMMETLEDAP DPFFGMMSVDPRLSPFDIPQIRHLEAAI PERVEEIPPEVPTPREPERIPVTVLPEAI TILAEAEPLRMLEIEGERELPEVSRRELADL LIAEEEEAILLEIPRLPPAPAEVEGIGEA LGPEELRLTGWEPGALLMEVTPPEELRL PAPPSPERRPPVPLRRRRRRRLFWDK ETQISPEEFPRNNLQTRAHCWECPMVQ PPERTIRGPAELFRTPTLSGWLPELLGL WTHCAQPPPKALRRELPEEAAAEEERR KIEVPSEIEVPREALEPSVPLMVSLEISLE AAEEKSRISLIPPEERWAWPEVEAPEAP ALPVVPEIPEVPMEMPLVLPPLELELLN WKTVHRAVALELQANREPDFSSLVSP LSPRRMAARVFYLLVLVLSAQQILHVKQ EKPIYGRLLIQGPRFH
3156	11207	A	4107	136	423	SPEHPQLPGSLLRPPGAQIPSEWQVAEAT ALVHTLDGWSVVQTMVVSTKTPDRKLI FGKGNFEHLKKELEAAWGEVDFRFTV VLHILRCNARTK
3157	11208	A	4108	1	212	RPPRRVVRGRHQPHGEPVRS GAPVRVP GEDDAAQPSAAERVGPRAVPGAGFTVH QHHRGGLHRRRRLRQ*RHQPHGEPVR SGAPVRVPGEDDAAQPSAAERVGPRAV PGAGFTVHQHHRGGLHRRRRLRQ

3158	11209	A	4109	1	1746	AGRRTPGAAALRGPRPLGSAGSRAVLP RARASRCRPQEPRESGGAVGRREGPAGG RRTKTERKTTTTRSRKMRTRTPRRSCCGE SLCCRRGPKRVCLVHPDVKGWPGKSQM TRAEWQVAEATALVHTLDGWSVVHTM VVSTKTPDRKLIFGKGNFEHLTEKIRGSP DITCVFLNVERMAAPTKELEAAWGVE GCLTAFTVVVLQHL PACNARTK/ERARLQ VALAGDARLHRSNLKRDVAHLRYGVG/ SRAYIMGSGESFH/MQLQQRLLREKEAKI RKALDRLRKKRHLLRRQRTTRREFPVISV VGYTNCGKTTLIKALTGDAAIQPRDQL FATLDVTAHAGTLP SRMTVLYVDTIGFL SQLPHGLIESFSATLEDVAHS DLILHVR DVSHPEAELQKCSVLSTLRGLRLPAPLL DSMVEVHNKVDLVPGYSPTEPNVVPVS ALRGHGLQELKVELDAAVLKATGRQIL TLRVRLAGAQNLWLYKEATVQEVDP EDGAADV RVISNFPYGKFRKLFPRMN GRPQKACGVGASPALGELRRYPLCWGQ LGVRCSRVLVWFCTRLASQPFAGMYR ACR
3159	11210	A	411	136	251	IHQEKPPNIFSVKKRHYD*PGQHDPLASA SQSAGITGV
3160	11211	B	4110	50	382	XGEQLVRQDL DAGVSEHSGDWLDQDSV SDQFSVEFEVESLDESYSLSEEGQELSD EDDEVYQVTVYQAGESDTSFEEDPEIS LADYWKCTSCNEMNPPLPSHCNRCWAH X*
3161	11212	A	4111	1665	1787	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
3162	11213	A	4112	1431	1553	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
3163	11214	A	4113	1740	1862	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
3164	11215	A	4114	1	752	DL DAGVSEHSGDWLDQDSVSDQFSVEF EVESLDESYSPSEGGQELSDDEDEVYQ VTVYQAGESDTSFEEDPEISLADYWK TSCNEMNPPLPSHCNRCWALRENWLPE DTGKDKGEISEKAKLENSTQAEEGFDVP DCKKTIVNDSRESCVEENDDKITQASQS QESDYSPSTSSIIYSSQEDVKEFEREE TQDKEESVESSLPLNAIEPCVICQ/GST*K WLHCPWQNRTSYGLLYMCKEAKEKE
3165	11216	A	4115	426	813	SSRRFVWRAKLLCERAQSGTVYEI*QCA HRHPRHRHPGCCRHRLGYAGTAGPLAG YRPFQRHRSQSLWRAASAICVDAISMRT SRSTVRPLWPPSPARFATWSHYRLRDH GDHTRPVDLPTSQFTILL
3166	11217	A	4116	1174	1354	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPLRPAGLFKHSPGLYSQ PILT
3167	11218	A	4117	2251	2373	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
3168	11219	A	4118	1027	1193	FFFFFFFFFGLVETGFHRVSQDSL DLLTS *SSRLGLPKCWDYRHEPPRAEEGI
3169	11220	A	4119	983	1386	QEVRYRKVETLRCLLFSSCLVPVCAASP VSRPGCRFLRSSLHWPTGRLVFRQGET FLVPEKTVLRGVASAPAKAAGRTVPVG RPRDARLRADARS*SC*RAARPRRGASG AVGARGCPRPGFPFLRSGGIFV
3170	11221	A	412	118	337	IHQEKPPNIFSVKKRHYD*PGQYGKTL SL LKIQILAGYSGTCLAKSQLLRRVGREVIQL ALKIRAPIWKIECL

3171	11222	A	4120	6133	7646	YMLFLFLSTKQWTVIQNRQDGSVDGFR KWDPYKQGFNGVATNTDGKNYCGLPG NEQACKIKSFYKWDFF*LKNHCWKPV LGS*EEFPDKNVEAKDKGRKAVFSFPKF YFW*EILFCFSFRLEYWLGNDKISQLTRM GPTELLIEMEDWKGDKVKAHYGGFTVQ NEANKYQISVNMKYRGTAGNALMDGAS\ HLMG\ENRDHDPFHNGHGSFQPPYD\RD\ NDGWYVWHSLLLL*KSH*YHYSESLTIF LIATTSWALTVSHCPKLFMHHSKAFQL* GRHSYSHFTDEI*RDYVICPM SHNYPEIK LEFEHSYFLNNEHLDKYLILYLKCV*KL SFSFPGFSDTKGCKSYSSIK*QTQSLDG LPQRPSYLSFLL*GTGGLWCISVTLCIAP KGKTTVHTSVAVFYG*SAKRNLTTVVLF LITPNTFSFRLTSDPRKQCSKEDGGGWW YNRCHAANPNGRYYYWGGQYTWDMAK HGTDDGVVWMNWKGSWYSMRKMSM KIRPFFPQQ
3172	11223	A	4121	333	430	GRGDKPYSPGDSWFVQD*ILVQL*ICPQ EPS
3173	11224	A	4122	2	1679	
3174	11225	A	4123	42	1465	GRWPPRGGRENALSKTL\VDMDMADYS AALDPAYTTLEFENVQVLTMGNDTSPSE GTNLNAPNSLGV SALCAICGDRATGKHY GASSCDGCKGFFRRSVRKNHMYSCRFSR QCVVDKDKRNQCRYCRLKKCFRAGMK KEAVQNERDRISTRSSYEDSSLPSINAL LQAEVLSRQITSPVSGINGDIRAKKIASIA DVCESMKEQLLVLEWAKYIPAFCELPL DDQVALLRAHAGEHLLLGATKRSMVFK DVLLLGNDYIVPRHCPELAEMSRVSIRIL DELVLPPFQELQIDDNEYAYLKAIIFFDPD AKGLSDPGKIKRLRSQVQVSLEDYINDR QYDSRGRFGELLLLLPTLQ SITWQMIEQI QFIKLFMAKIDNLLQEMLLGGSPSDAP HAHHPHPLHMLQEHMGNTNIVANTMPT HLSNGQMSTPETPQSPPGSGSESYKLL PGAVATIVKPLSAIPQPTITKQEV I
3175	11226	A	4124	3	1840	
3176	11227	A	4125	6233	6874	VLIGCIPQVPPSISYSPLFWFSALGNVAEI FFCLCLGNHNSCWRTL VVEVPESLCPHC *RLLV*HKS GDIWVLT PQMLQLDPAALP CPPSSIVDAKGLSDPGKIKRLRSQVQVSL EDYINDRQYDSRGRFGELLLLLPTLQ SIT WQMIEQIQFIKLFMAKIDNLLQEMLLG GPCQAQEGRGWSGDSGDRPHTVSSPLS SLASPLCRFGQVA
3177	11228	A	4126	1	1481	GFGVGAQGRAGRRVEAGRMRLSKTL\ VDMDMADYSAALDPAYTTLEFENVQVL TMGNDTSPSEGTNLNAPNSLGV SALCAI CGDRATGKHYGASSCDGCKGFFRRSVR KNHMYSCRFSRQCVVDKDKRNQCRYC RLKKCFRAGMKKEAVQNERDRISTRSS YEDSSLPSINALLQAEVLSRQITSPVSGIN GDIRAKKIASIADVCEMKEQLLVLEW AKYIPAFCELPLDDQVALLRAHAGEHLL LGATKRSMVFKDVLLGNDYIVPRHCPE LAEMSRVSIRILDELVLPPFQELQIDDNEY AYLKAIIFFDPDAKGLSDPGKIKRLRSQV QVSLEDYINDRQYDSRGRFGELLLLLPTL QSITWQMIEQIQFIKLFMAKIDNLLQEM LLGGSPSDAPHAHHPHPLHMLQEHMGNT NIVANTMPTHLNSNGQMCEWPRPRGQA ATPETPQSPPGSGSESYKLLPGAVATI VKPLSAIPQPTITKQEV I
3178	11229	A	4127	602	799	ENPKQQENLWSQYFTLISTI*KKKSWLCI VAHACDSSTLGD*GGHIA*AQEFETSVG NIVKPPSLY

3179	11230	A	4128	646	1905	
3180	11231	A	4129	6717	7569	
3181	11232	A	413	160	437	KRDITTS LGQY GQNP SLLKIQILAGYSG TCLKSQLARRLRHQNRNLNGRGVSE QRSCHLHSWG GHSETVSKKKKKRERQQ WRQIGTCMP
3182	11233	A	4130	2	93	DFTMSHHYHSAHGT LVLAPRALGNPLSL YPSNYTFPFQHSPSDPCTQSYSLPPEYAT HGSSCFD TTDGGLNASRALAGSCAPVSG SLPCCPTLGIPSPPLPHMHKSLPTYPTPTI SMKPP*PCPGSQGPWQSAFTLPI
3183	11234	A	4131	743	955	ESDFT EYFTHNSCLFCYNKIYINIIYKLSL NCNYGNYFLYIVAHTQTYIYI*NIFCFF CHLLLTFC LGF
3184	11235	A	4132	49	313	PLRIWPC*ALFLKLSLGFSLF*FYSSLFLL SPPLC*SLPRVQYIYMYLYICIN*YTYI QVCICNGYMYSCSWCSNVWYGYTENM RT
3185	11236	A	4134	508	780	VSFSSFPSPFPHLSLFFSLSFSFPPSLFPSS FFTFFGNHLL*ISCNP NLMYQWGIFKYK YYQCIFWLLSDF*LKYNENDMSVAFGLR TSL
3186	11237	A	4135	34	329	DRLKRKNKQSLSYLWEYNKKS NICVTQ SLEREEDDRAEKVVE*IMASNFPYLSRD VNLKIQDS*RILNWIKLKKSISKYIIDLLE TKDIIRNLESSQR
3187	11238	A	4136	582	869	MCQRVQTPKSPSNPYVHSNICTQLFIAPL SIIAKRWKQPKCPSAEE*INEM*YIHSME YDSA IKRNEVLHVTTWKNFENIRLMKD ASHKGLYVA
3188	11239	A	4137	285	346	AVLFYVFHPIYLLVMTLLLYFLP*LPNQ RFSSLSHSKTTAWPSTTVTLF
3189	11240	A	4138	97	298	DNLTLLPRLECGGMIMAHCSNLTFSSD PAASAS*VAGTTGT*HHA WIFVLCNWL RNRGVT VKRS
3190	11241	A	4139	147	502	IFHSKMPISEWKLV*TLWQFFKELKIELP FDPAJPLLG I*PKLAVVAPQHS
3191	11242	A	414	2	150	WLPSLLEPGLHPSNHVQGPVAGIDL GTT YSCVP IGNRTTPSYVALRPG
3192	11243	A	4140	435	660	NLNQHEKLSMLE*ILKSYPKILDNINDHE VSHCSKGNNFKNRSKEW WCGTQDSWR LG NLKVGE EEFNDLTRNTL
3193	11244	A	4141	293	563	NVWPSSSVRGRNE*GREGGRRRTQQA GLGPAPSDLWWLWLSWCLQKNMSQGG ENLPAGPGSCCGREAGAGTSLEDAPF FEAQLQLH
3194	11245	A	4142	1329	1563	WPRNQPTRRPWLKDKLP GVPGLTGPN PCGQGP PGPPLRPSALWSSHSGPPNG EPLPRGE*YLHPSPRRTSYL
3195	11246	A	4143	304	589	RTWWTAASYFRSVGGSASNRPFSGPY EFQLPRGHSRKGTTRSRAREPSTLWSTP AAP*RTWWTAASYFRSVGGSASNRPFSI PGPYEFQLPRGHSRKGTTEEQSQGAIYT VEYACSAVKNLVDSSVYFRSVEGLLKQ AISIRDHMNASAQGHR
3196	11247	A	4144	131	690	VSPA VTTSSLSWARSDLAAEGHARCPL CSGWAQHLSNEEADALSPHTRPIPTTCI* SRTSSLRASTSWPTSHWPCTGCRSMCV RSLPELAQHKADNAALGRSRAREPSTLW STPAAP*RTWWTAASTSAAWRVCSNRP SASGTILNASCPGPQVAPGDRPPPLPFP SLQGPSLSCAGEPLLLAY
3197	11248	C	4145	332	421	MEEKIFSQPGMVAPTCNPSTLGGQGRWI T*
3198	11249	A	4146	685	929	KVGGAKPSLGYLRLGLRLPVFCLHIS*A GDFPRGV*LLPRRGSGVVAHTCNPSTLG GQGRQIT*GQEFKTPVNMV KPHLY

3199	11250	C	4147	710	892	MCVCAHTCPQTSIYIHVFTHGYDCIQVT AQKCLHMCFHMHMSTHACVDYICIIYH VKLI*
3200	11251	A	4148	98	317	
3201	11252	A	4149	656	1037	FVQVQAHKLACKHVQGAYFVFKEQQPE GNVFRQCQGVSTS*EHGASSEFWHGPAGA GVTTSFSSPFGGDRHKFEVSGRRLPTEG LPSNSSFESFPSSIPWPFLFPQVQLSTIWG LKFQFFGDLKILP
3202	11253	A	415	1	1786	MCLLVITYSSRHVYNNLTEEQKGRVAF SNFLAGDASLQIEPLKPSDEGRYTCKVK NSGRYVWVSHVILKVLVRPSKPKCELEGE LTEGSDLTLQCESSSGTEPIVYYWQRIRE KEGEDERLPPKSRIDYNHPGRVLLQNL MSYSGLYQCTAGNEAGKESCVVRVTVQ STMFQGTLLGLDGLTYS\CVGVFQQR KSPRLIANDQGNR\TTPSYVAFTGH*TG WIGDAAKNQ\VAMNP\TNTVFNAKRSD LDGRF*MNAVCPVLIMKHWALYVWGE MMLGRPQGP*DYKGEDQKAFYPEEGC LLWVPDKD*KEICRSPNLGEELVTNAVIV TVPAYFND\SQRQATKDAGTIAGLNVLR IINEPTAAAIAYGLDKKVGAEARNVLI GGGTFDVSILTIEDGIFEVKSTAGDTHLG GEDFDNRMVNHFAEFKRKHKKDISENK RAVRRLRTACERAKRTLSSSTQASIEIDS LYEGIDFYTSITRARFEELNADLFRGTLD PVEKALRDAKLDKSQIHDLVVGSTRI KIQKLLQDFFNGKELNKSINPDEAVAYG AEMRQDKKELLDDPIAEDFLEEVAFDKK RMGFGGF
3203	11254	A	4150	1365	1503	LKTLQRAGCSAHACNPSTLGGQGRWII* AQEFNTSLGNVAKPCLY
3204	11255	A	4151	397	682	YSKSKCHAYRMKCQLNVGLSCKCECT EWRDPCELEGQESLWGQVQLAHACNPN TLGGQGRGRIA*GQKFKNSLNNIARPHLF KKRKKISLMRWLK
3205	11256	A	4152	477	684	LYLCSALKKNQ*EPGMVTHAWNPNSTLG GKGRRTA*AQEFQTSLSNVGRACLYKIY IFKISQAWWHAFVI
3206	11257	A	4153	108	419	SHTLGGQHGRIMRSGVRDQPGQHGETPS LLKIQKKKKLPGRAGRHL*SQLRLRL ENRLNLGGGGGSETEIEPLPPQPG*TQ*R LPSQKQKNLETVSKKKS
3207	11258	A	4154	175	190	DKVRVSQVRLTSRHLITLR*IRKGRGKK RGCRERNRENRGK*KYV
3208	11259	A	4156	20	430	RPQTYTMVHLTPEEKCAVTALWGKANV DEVGGEALGRLLVVPWTHRVFETFGD VSTPDVAVMGIPNGNADGMNVLWASIDG LAHLDNLRGTATLTHEHD*D*LHVDPEIL MLLGNVLICVLAHHCVEFSPSWQAA
3209	11260	A	4157	31	492	QRILQSRPFEGRVKQGVTWLLQLVGLVS ESHIGPELHLPCEECHLLVSFGVNSPE DSSPLLTEWLWTSHLPFLHCLFGASGR GLQTVPPFVSTALQNVCFPQKGIKAPFL LSCATGGCSAGLRVYKLRSAFSCD*AGR TRGSSGESAPML
3210	11261	A	4158	165	433	GSGQADHPCVGVWRQNSVNPRQVFLQAT G*LISASSGSINTNMAQGTAVVCFGPVYP PKAKGRARSQVTPCLTLPSKGRCLKILC YLFKL
3211	11262	A	4159	132	257	
3212	11263	A	416	1	154	PQRRVARRKRAVLPSTKA*PENTPSTFTS ASMEWASRSVHLGHSKRFGNLP

3213	11264	A	4160	2	111	QLLKDSARSTLVLYPCWARVVSQKSGCCP LKVLSQRPGKLLGGLWVEAWECPGA RCLCHPGPLCPASGTFVPGTEPHS*LLL RNELPSPLF*LLGQSEPEKWMLPPQGAIS ETR
3214	11265	A	4161	3	116	GWRAPTSQPGGPAQVPCSSF*KILPGQH WSSTPAGPE
3215	11266	A	4162	273	793	DSLLLIQVDTMPFTLHLRSRLPSAIRSLIL QKKPDIRNTFSMAGGAPTSQPGGPAQVP CSSF*KILPGQHWSSSTPAGPE*ARKVDAA PSRCYL RDQPKGPFKVP GTEPHS*LLRN ELPSPLF*LLGQSEPEKWMLPPQGAIS SLRDL SKCLAQNLTHDCCSGTSCPPHCS DSFPYHLAPVLAEIFEIMEKVPWRNPT GSAICPLHRPSQKPACTGLRRK
3216	11267	A	4164	212	494	FSEAQFLANVAIKAILSEEISEGKGDRRM LADHTLILTERGSEGPCC*PQEV RPTVLS EWGCKCAQANCECSP*PWP HKSRAGHF PPLSLGKLL
3217	11268	A	4165	281	587	EIFFNPKREYLSLHWMDEHQCPNFHIV GQGGLGTIWQDVLQEYNQKNFLYNISLK DKFLGWMW*LTPVIPALWEAEVGGSL PRSSKTS LGN MARSHPYKK
3218	11269	A	4166	113	564	IDRLDSAKIFGHL SIFDRCEKRRPDLVSG TGTCSGSFRRTVFPAPVGR TDSP IPRTH GPNFVP*TLVEKKPPAAW*TPACDLTSK PSIGPTILVPTPKVEPGSLPTPA*DPLEPIQ SPEKK*SIVPQTGSFQTASQLTEAVPELV LVAH
3219	11270	A	4167	1173	1432	PIPVDLNTLMFCHYFIYVYHPCLEMFSFT CGLLSL*AQRPSDGYFFEAFIYILFCTMF FLNVQILYSSEKNTVFVDNHSYYTVLR
3220	11271	A	4168	75	270	QYISVVDTYLLMPRLATAILWITN*VFE KRV AHFGYHWSLMVRDRRISGVDRYYV SKGLENID
3221	11272	A	4169	271	825	SPPACLVDGQALPSGGGLYPNSLRQGS VGQAGRGCLSWFCMVHFANPEDQFLGF QASGFLHLVLPKPPQGAATPSGSSQGGPA MFSGLPSEPPTPATPQNPIHSSTKLLCE AAAPTRGKPC TPSSIFQPWHR TDGKGRA GFSASGTRGRPHLTPSPVHQTG*EASQK GPALMPPGFQPPKGK
3222	11273	A	417	1	893	PTRPCMAGEKVEKPD TKEKKPEAKKIV DAGGKVKKGNL KAKKPKGKPHCSR N PVLLRGIGRYSRSAMYSRKAMYKIRKYS AAKSKVEKKKKEKVLATVTKPVGGDN GGTRVVKL RKM P RYPTEDVPRKLLSH GKKVPFSQHVRKLRASIY/TPGTILIL TGR HRGKR VVFLKQLASGLLLVTGPLVLNR/ VPLRRTHQKFVIA TFTKIDISNVKIPKHL TDAYFKKKKLRKPRHQEGEIFDTEKEY EITEQRKIDQKAVDSQILPKIKAIPQLQGY LRSVFALTNGIYPHKLVF
3223	11274	A	4170	1	211	THPPPAEAPGAEGPQ*G*AKHPSAP*APL L/PRRRARASSRPVTSVTPSSGGSFRPGTP AQGVITAVTVSA
3224	11275	A	4171	1	424	NSRVDDFVRPGSSAAGRQMRGGGQOV PNPRPGFRGQQP*RNGHPVPASP WALAG DAGGMLWNMMRSWPVSGRPTLNPFNK QSGPRQHEQGPGEVPDVTPEEALPELFP GEPEFRCPERVMDLGLSEDHFSRPVGLFP GL
3225	11276	A	4172	1091	1421	RGIITEINKHPDHIHSPTHTCRHTFTNMH AHTHTPTYMHHTHTGMFW*K*N*GSLNS RSGFK
3226	11277	A	4173	1407	1607	LSDLNGNFH SKVMTRVNIKGNLYLKNM RPGAVAHACNCSTLGGQGGQTA*AQEL ETSLGNVVRLCLY

3227	11278	A	4174	1	294	FSRPDHLNGHKKQVHTSERPHKCQVWV GSSSGLPPLPLEPLPSDLPSWDFAQPALWR/ CVPFGS*HRLFPFSKKIIPSP*KPGPSTLQQ HSDLDPAFISG
3228	11279	A	4175	560	824	FWKVGCLPWELAHAPAYLLPFPLGITSP*A LGFPRTGGPWPTFPFPLPRVSRPSQRRLG TIPT*SQPHACPLPLPHSGSRSCFHFVLV K
3229	11280	A	4176	3	325	FFHVSRNLFYFFRYIKHCYFIFSLIILVSGS RVNLLLLGLIVYCFVVFMMNF*TWISHF LSFFFFCRDGVSHCVAQAALFTPLGLKC WDSRREPPRPAEMFLFLGT
3230	11281	A	4177	292	543	SPGTYAPKRIGKGAGNWKPGVPPFRSSM WKETQPLSSRVSKVLSVSPSPPIPVVP LLPALPK*GHSPLVSPPLHRSSQGESP
3231	11282	A	4178	3	367	IQMDCVLLFPAQAQISAPPLIMKTTPITIS WGLEHICPSYPWNHSPSLYHRYAMGFG MFFQSGPCSSWAWKLSRTLPSLVVALSS AWPLTRG*RDLGPPAPSSYVGFSSQASP SPSPAAQC
3232	11283	A	4179	67	283	MCAYIKIDKGNRMCTNMIYLVGIGVT FSLTLMYKYTKLIIMLSYVKRLTLISCAF YVNLWINLYYAMFI*MCAYIKIDKGNRM YCTNMIYLVGIGVTFSLTLMYKYTKLII MLSYVKRLTLISCAFVNLWINLYYAMF IK
3233	11284	A	418	934	1272	WCILGLCTSLMSRTALFPSRHTFFA/RSH SAASKL/EKKKKEKVLATVTKPVGGDN GGTRVVKLKRMPTRYPTEDVPRKLLSH GKKPFSQHVRKLRPSITPGTILILTGHRH RG
3234	11285	A	4180	268	467	GNRRALLRLPALGPPRSSP/DGFTPGTTA RPSILKRCMPMTPLPPDPSAAAPGTSELW TSPDSSSSSR
3235	11286	A	4181	880	1200	GNPTWLFLPSYQGNSGPAEIQS*GFTPGT TARPSILKRSPMTPLPPDPSAAAPGTSEL WTSPD*QQQQDGKEAPQSGRHDSSSA LRPAAEALPVSRRPPPLAA
3236	11287	A	4182	343	720	SCLLTVISFHQIKKYIYVHTQLTKAGQKE FICRLSLALTNLPPAAPPLAMAPCVSPAS RQDITVLG/GPQPPSGPAPTAPQQA*AR WQLGPPSPGPSILPPREGRPSAPSGAGWG GDLAGPSQVHF
3237	11288	A	4183	789	1015	MSLMVPLMPYGP*YLPSPPAYPIWEL PLPQRDSADVSRRLGGRGVAVERDSPTE KSNISKFLYQVACAVTHL
3238	11289	A	4184	319	471	IMWYIHIMEYI*PQKGRKILTHATI*MKL EDIMLSEISQSQKNKYCHISVI
3239	11290	A	4185	68	422	GSPSRCPAFLSSPVAARPLTHFPTGAGL LRASGEPAQLTGSVSQ*PPRAPSSGLPL KHSPHQCSAQHSGKEGLGGGTNTTREN* PSPRPLCMGAQAGRMLLLPAAVRNHVL ESGSV
3240	11291	A	4186	135	500	PPWVTPRWERGWGVIIRDGDRVRSQRQ QGLPPKLQSGWEVESWLGP RPVFP VPGTPRSPAAGGSQPRCPDARPAHKGPR APGARCGLPPPPGLPPAY*PGRPR/PRP ARR*TPLTAA

3241	11292	A	4187	365	1452	IGPEVPEGCHFRSGESRGDATALAYRVESE HHLGLEGCAGNATLVQGVGRKIPCLGLR GAILGPQIAVRLGSRIMARPAAPGLSQA RSLARRGCPAAGGSQPRCPDARPAHKGP RAPGARCGPPAPPPGLPPAY*PGRPRRG LHGGRHRSRRPPRRGPAAPGSPPAEVAG ASARGRAPGPPCPRPPPIPAAPRVEAG PSARPSVPAPAPAPSRSPRLQPPAAPWG GRASGPKDPGTAPPPTRTQSARNPSRSP PPAPPSPASAGASADDPGTPWHRTGPPC QSQTRKHTGP*AARDQQRQSRKDDSPITG LCHCLRPAGPKCLKGLWFAFSVHPWSS TPWLQSGRVNLPLAQDIFLL
3242	11293	A	4188	200	390	GPHAKSAFFPP*LSEQLGQG*QPGQTPVG RLALSVAFFPQGVGFPAAGGGTGEAFGG LACPLP
3243	11294	A	4189	805	1030	LVLCLPHSQLTKGTSHTCLTLQGGL*KL TRLALFRLGAVAHACNPSTLGGPRGPIT* CQEFKTRLANMVKPLLY
3244	11295	A	419	1	2607	MAFAWWPCLILALLSSLAASGFPRSPFR LLGVANGIEVYSTKINSKVTSRFAHNVV TMRAVNRAADTAKEVSFDVLPKTAFTIN FTLTIDGVTPGNVKEKEVAKKQYEKA VSQGKTAGLVKASGRKLEKFTVSVNVA AGSKVTFELTYEELLKRHKGYEMYLK VQPKQLVKHFEIEVDIFEPQGISMLDAEA SFTINDLLGSALTCSFSGKKGHVSFKPSL DQQRSCPTCTDSLNGDFTITYDVNRESP GNVQIVNGYFVHFFAPQGLPVVPKNVAF VIDISGSMAGRKLEQTKAALLRILEDMQE EDYLNFI LFSGDVSTWKEHLVQATPENL QEARTFVKSMEDKGMTNINDGLLRGIS MLNKAREEHRIPERSTSIVIMLTDGDANV GESRPEKIQENVRNAIGGKFPLYNLGFG NNLNYNFLENMALENHGFARRIYEDSD ADLQLQGFYEEVANPLLTGVEMEYEPEN AILDLTQNTYQHFDYDGEIVVAGRLVDE DMNSFKADVKGHGATNDLTFTEEVDMDK EMEKALQERDYIFGNIERLWAYLTIEQ LLEKRKNAHGEEKENLTARALDSLKY HFVTPLTSMVVTKPEDNEDERAIADKPG EASYQPPQNPYYYVDGDPHFIIQPEKDD ALCFNIDEAPGTVLRLIQDAVTGLTVNG QITGDKRGSPDSKTRKTYFGKLGIANAQ MDFQVEVTTEKITCGTGRASTFSWLDT VTVTQDGLSMMINRKNMVVSFGDGVTF VVVLHQVWKKHPVHRDFLGFYVVDSDH RMSAQTHGLLGQFFQPFDFKVS DIRPGS DPTKPDATLVVKNHQLIVTRGSQKDYRK DASIGTKVVCWFVHNNGEGLIDGVHTD YIVPNLF
3245	11296	A	4190	90	417	LALEILSYFYLLYLPVWHFGFNSVVALSL KILNIIVYLFSSFKSLRNFSALVSIFVFCF SSFSACFSLNSKDFF*NPDIEKKPHVKNS RIYKTQYSKDHPQRENQFR
3246	11297	A	4191	2	672	GRVGFTPGSWEAFMVKNIVPKLGMCLG ELVINPHQQHMDAFYWVIDWEGMISVSS LVGLLEKHFFPKWLQVLCWSLSNSPNYE EITKWYLGWKSMSDQVLAHPSVKDKL NEALDVMNRAVGSYVGAYMQPGARE NIAYLTHTERRKDFQYDAMHERRAGPQI GLLRSLGKNLKICAKKEPLEIYLWANLK EYYLAKTGQGPFFFLTRAPEGLITAWA LWG

3247	11298	A	4192	1642	2785	RMTSSCPMADRTCPLPFSHRLIWEVWMP FVRNIVTQWQPRNCDPMVDFLDSWVHII PVWILDNILDQLIFPKLQKEVENWNPLTD TVPIHWSWIHPWLPLMQARLEPLYSPIRSK LSSALQKWHPSDSSAKLILQPWKDVFTP GSWEAFMVKNIVPKLGMCLGELVINPH QQHMDAFYWVIDWEGMISVSSLVGLLE KHFFPKWLQVLCWSLSNSPNYEEI/TPK WYLGWKSMSFSDQVLAHSIWSRDKFNE ALDIMNRAVSSTVGAYKQPGARENIAYL THTERRKDFQYEAMQERRRPENMAQRG IGVAASSVPMNFKDLIETKAEHNIVFM PVIGKRHEGKQLYTFGRIVYIDRGVVVFV QGEKTWVPTSLQSLIDMAK
3248	11299	A	4193	264	638	PSRTRIKTKQMATSEILPSFVATMDASNF SFWQVLCWSLSNSPNYEEITKWYLGWK SMFSDQVLAHPSVKDKFNEALDIMNRA VSSNVGK*GFFFWMSWPQVSDFTHVND TESEFSGSCRQPKP
3249	11300	A	4194	2413	2707	EMHVY/WTERSGSRL*SEHFGPRRWVDH */RQEFETQPGQYGDTPSLHPLLSTSCPS FLSLFSFLVTFFFSSFLSLFLIYLLSRHDF LACDCFPFLFD
3250	11301	A	4195	835	1050	GSR*HNLQIIGRPRRADHLRSGV*DQPGQ HGETPVSTRNTRISQAWWWTPVIPATQE AEAGESLEPGRWRLW
3251	11302	A	4196	2	112	
3252	11303	A	4197	36	172	
3253	11304	C	4198	1	1482	MVTHACNPTTIGKLEPSYVIRKFLDAQRI HNLTAYLQTLHRQSLANADHTLLNC YTKLKDSSKLEEFIKKSESEVHFDVETA IKVLRQAGYYSALYLAENHAHHEWYL KIQLEDIKNYQEALRYIGKLPFEQAESNM KRYGKILMHHIPEQTTQLLKGLCTDYRP SLEGRSDREAPGCRANSEEFIPFANNPRE LKAFLEHMSEVQPDSPQGIYDTLLELRL QNWAEHKDPQVKEKLHAEAISLLKSGRF CDVFDKALVLCQMHDQDGVLYLYEQG KLFQQIMHYHMQHEQYRQVISVCERHG EQDPSLWEQALSYPARKEEDCKEYVAA VLKHENKNLMPPLLVVQTLAHNSTATL SVIRDYLVQKLQKQSQQIAQDELVRVRY REETTRIRQEIQELKARVKAMPPGKVPR KENLWLQCEWGSCSFVCSTMEKFFEHV TQHLQQLHSGSGEEEEEEEDDPLENSV NKDIRNKSAILPSRSNC*
3254	11305	A	4199	913	1299	ELGIVGKHAPTGGAGYHFLGMAAEVL SKFTAVLEGAGTAFPATQHHRVVLADCF VFTETDCVLPHADKTTQDCRRNSVPGAT HSAPTDNRKWSGISGMTFRLWKSRLMQG PRSAWLC*ACSPHCFSLVW
3255	11306	A	42	1	818	MAGAEGAAGRQSELEPVVSLVDVLEED EELNEACAVLGGSDSEKCSYSQDKAK VNSGNKYNDNFFGLYCICKRPYPDEDE VRELEVKPGVTKISTEDDGLVRNIDGIGD QEVIKPENGEHQDSTLKEDVPEQGKDDV REVKVEQNSEPCAGSSSES DLQTVFKNE SLNAESKSGCKLQELKAKQLIKKDTATY WPLNWRSKLCTCQDCMKMYGDLVLF LTDEYDTVLAYENKGKIAQATDRSDPL MDTLSSMNRVQQVELIC/GIQ*FED
3256	11307	A	420	1	1842	
3257	11308	A	4200	1	587	GAEETWEPTDGSASAAQDGVQWCDLGS LQPLPPGLKPSSHLNLPSSGTAG*RPCAL PGKVPRKENLWLQCEWGSCSFVCSTME KFFEHV TQHLQQLHSGSGEEEEEEEDD PLEEEFSLWAGMWLLFSGQFCLTSSAM SYFHCYHTKLKQWGLQALQSADLGPC IDGSRAGTSSLSLTTSCVWGTTOEUP

						IPGISRAGTSSLSLTSCVWGTGTEILR
3258	11309	A	4201	262	409	RSGGRNISSRKSITAHRSISAPGSISAQGSIPALKSILAHGSIPSQG*DTPLGWDAPMG*DALEGWDAPLG*DASRG*DTPMGRDALSG*YVPSPTPSSWANALPCHFLPQMFLTNVMPTNPISAEINCGRGAGWQEWMCPLQAPVPNHIHSCSPTASRGLRGQLSSQLPETAKEAW
3259	11310	A	4202	729	922	WFETIEATQLYFNELPDTHFVLCFLLCHFYINVKAFCSCSCC*NTCSLIFRPTVYYALML
3260	11311	B	4203	306	392	LTSGTYPKSGKAVEEAQPNSPAEDVRDR*
3261	11312	A	4204	965	1298	GNLVTAFLVLCIPDESLYRSICFLLHHQKLHISVPQSPRWGWTSLGLAGTPRCSPPTPPRLLPQPSRPGATGKIPRDRRTPVRPLGHKEPRGT*GKSWPAVAQPPG
3262	11313	A	4205	1	324	
3263	11314	A	4206	310	513	
3264	11315	A	4207	65	191	QEISIMVGFKATDVPPTATVKFLGAGTACIADLITFPLDTAKVRLQVRG*SLGVLMVSTLFPQRHRPLKGQCLEHRDDWRWEGQHAYPCSYPLALQIQGESQGPVRATASQYRGVMGTILTMVRTEGPRSLYNGLVAGLQRQMSFASVRIGLYDSVKQFYTKGSEREYGARV*AGNQHHGWVQGHRCAPYCHCEVSWGWHSCHLHRRSHLSSGYC
3265	11316	A	4208	12	237	NFKYILFKILHLGEKIYNVYTCFNNLFHCTTYILYNSTINQPKITS*HLNKNLPCKKHSMGHYKVVFKIFFK
3266	11317	A	4209	361	444	QRLKNNCVITCS*QRPRVFSSSPQGLAACHYRGLRSPQSRGRCLSHFSCQGVHPRSCQRGSAWSPRTTGQRGPTVGTGRTKRRLNTAYLLGAASADILRPIPSTR
3267	11318	A	421	3	377	
3268	11319	A	4210	89	198	APP*THKWKIPHPTSCDRSLSTCWHTTV DSTSLREK
3269	11320	A	4211	119	698	PTLMLHYIPWGRGLGGWGQCQSHSARCAGTGTCLPMGTLMHMEASRQVWGGCILPLFPYFLPPQLPS*LGPSNIWVAKDGWLRDLLDPP*YEWTLGVNWPSPGILAYWTVSAPSLGFSGPITDAALPCPYNLGGSSPHPRRGRSRFQKTGLSLTEGNLPFPPIPTPYLPHFLHIRVWPANVEQMCRK
3270	11321	A	4212	728	916	FFFPISV*KVSAQG*SLWPGVAAHIYHFSILGGQGGRIT*GQEFKTSLGNIVRPHLYKSGG
3271	11322	A	4216	162	528	LLPYGLDRGPYGGVWCGLPYP/SGTVSTGPPORTASPLPKQSS/GPQPPEFAACTGTDAI*DARDAGDAGEGGSS/GAEPASSPAGAAGGGCGLAARSQVPSEIRSGWLKGSPLQLASSGALVICP
3272	11323	A	4217	160	835	GCGRRTVLVKDYQFFAEGRLIQFRWENAAARFSALAPDMQRQNFRTTPYPGPGGGGWGTGSNFRGTPGGGGPRTALPSRRVRGVRTTRRTGPRS*ARNGSKLSAKRRQLSRGARFGSPSPGGYPGSYSRSPAGSQQQFGLLPRAAADPPRVLQGLHHLDQGVLEKKECLMSWKINFAFKCLKIPWGWPRQTQICSGYKPNNTAILKHSQAKKEDTFC

3273	11324	A	4219	198	392	
3274	11325	A	422	1	621	MTKRCLDHRGEWLPGAGGGGHTEGTRC LHHAPVTWVGIEVDIFEPQGISMLDAEAS FITNDLLGSALTKSFSGKKPVWLRGRHT PKGNDSEVLAGLSPCPIPLAGLTVNGQI TGDKRGSPDSKTRKTYFGKLGIANAQM DFQVEVTTEKITLGTG\RASTFSWLDTVT VTQDG*APLQGLQGGQLQEGGDHSGPQP NPGALSEPELV
3275	11326	A	4220	318	718	YHHLQGRDIPGNLRVEGSVPHPAVRPRF SASCSQPPFPPLSPHLRARARPRWERQK FTPSLDGSFWGETPAGGCGSHHPWQGP RALFRRSQ*PRR*AHMEGRVGRRSPLL HPPWEKTPS*LSGLTDRKQA
3276	11327	A	4221	1	563	ETFSSHFERPYLQFKAEPPLTSRGFVEKS TALHRISAEHPESMMSEVHERALQQHPQ AQGGLETREKMHADNNFTKTQDRLHA SSDAFSGLRFSQGTSGYQRQMVPREEI KSTSASKSSVVSLADTAPNFSRLLSNVTV MEGSPVTLEVEVTGFPEPTLTWWVAYN DKP*METNSITEKNHSVSTN
3277	11328	A	4222	366	622	LSTMLHQHLLSVLLKLSQSLYVVYSFFLI QSTLQSGTRVTLKCRLOAGAVAQACN ASTLEG*GGWIARAQEFETNLGNRARPC L
3278	11329	A	4223	43	245	
3279	11330	A	4224	634	1316	GSGPHSPGKWMVDDSRHSRDRVRSGR LTLMVTECLSLQEFNSMDLWDFHKYMR SHKAESSELVRNSHHTCLYQGEGAHHIM RAIRQVRLRLTRLSPEIVELIEPLQVVRYG EGGHYHAHVDSGPVYP*TICSHTKLVAN ESVPFETSCRYMTVLFYLNNTVGGGETV FPVADNITYDEMSLIQDDVDLDRTRRHC DKGNLRVKPQQGTSSLLVPTTCLMGKV GWVT
3280	11331	A	4225	506	708	FLMRSEFL*KVFPHP*HS*GFPCVCSLMS CVG*LLGEGFSTFMTFIRFFPWCSPDDS GFEIFPLIS
3281	11332	A	4226	1	1662	MIISIDAEKAFDEIQQCFMLKTLNKLIGD GTYLKIRAIYDKPTANIILNGQKLEAFPL KISTRQGCPLSPLLFNIVLEVLAIRQEK EIKCIQLGKEEVKLSLFADDMIVYPENPI VAAQNLKLISNFSKVSQYKINVQKSQAF LYNNRQTESQIMSELPFTIASKRTKYLGI QLTRDVKDLFKENYKPLLSEIKQDTNKW KNIPCSWVGRINIMKMAILPKGIASFTGY CIPKPEVILKLETGKEPWILEEKFRSQSHL EEPSEYNNNGNSFWLNEDLIWHQKIKN WEQPFYNECGKAFPENSLFLVHKRAYT GQKTCKYTEHGKTCYMSFFITHQQTHPR ENHYECNECGESIFEESILFEHQNVYPFS QNLNPTLIQRTHSISNIEYNECGTFFS*D RVSLCLPG*STVARSQLSAASISQVKRSS H/CLCLLSTSDYRCMPCLANLCIFCRDN CAMLPRLVNS*AQNLKLISNFSKVSQY KINVQKSQAFLYNNRQTESQIMSELPFTI ASKRTKYLGIQLTRDVKDLFKENYKPLL SEIKQDTNKWKNIPCSWVGRINIMKMAI LPKGIASFTGYCIPKPEVILKLETGKEPW LEEKFRSQSHLEEPSEYNNNGNSFWLNE DLIWHQKIKNWEQPFYNECGKAFPENS LFLVHKRAYTGQKTCKYTEHGKTCYMS FFITHQQTHPRENHYECNECGESIFEESIL FEHQNVYPFSQNLNPTLIQRTHSISNIEY NECGTFFSEKLALHLQQRTHPGEKPYEC HECGKTFTQNFTEHLRRHTGEKPFGCNE CGKTFHQKLALIVHQRTHIRQKPYGCNE CGKSFCVKSKLIAHRTYTGEKPYECNS GGVRPALWDERSCGYVSAGTKRAEGEV

						WKGQGEEMGSIVERLVTLK
3282	11333	C	4227	472	681	MNHKIYVYGHTQQFLYCSYVFKRYEFY SNPTLQGFLCSPHSYFYKLLLTGRNLAI IILNIFAQWYQSL*
3283	11334	A	4228	2	277	RAEPTAGEVWDGAGPMGAELKPWARQ RKVEMDHVGPILLSPPPGRS*SPGPGRGR SRWTMLGPFSPRPQAAVRGPRPGVLGSP REALEPPGARHPRAVTAAPRELQCGGST VRAVAR
3284	11335	A	4229	1	240	ALLGWVFNLYKEITTTTPSFRRRSYILGF VKLYVSEHFHFFFWVLYYFL*MHCEKFY FRRCNAGRRSQIMYIVFLKSLSS
3285	11336	A	423	3	2722	FSDGLCMVALSHLGSALQLGSLCFRSPF RLLGKRSLPEGVANGHEVYSTKINSKVTS RFAHNVVTMRAVNRADTAKEVSFDVEL PKTAFITNFTLTIDGVTPGNVKEKEVAK KQYEKAVSQGKTAGLVKASGRKLEKFT VSVNVAAGSKVTFELTYEELLKRHKGK YEMYLKVQPKQLVKHFEIEVDIFEPQGIS MLDAEASFITNDLLGSALTCSFSGKKGH VSFKPSLDQQRSCPTCTDSLNGDFTITY DVNRESPGNVQIVNGYFVHFFAPQGLPV VPKNVAFVIDISGSMAGRKLEQTKEALL RILEDMMKEEDYLNFLFSGDVSTWKEHL VQATPENLQEARTFVKSMEDKGMTNIN DGLLRGISMLNKAREEHRIPERSTSIVIM LTDGDANVGESRPEKIQENVRNAIGGKF PLYNLGFGNNLNYNFLENMALENHGFA RRIYEDSDADLQLQGFYEEVANPLLTGV EMEYPENAILDLTQNTYQHFDGSEIVV AGRLVDEDMNSFKADVKGHGATNDLTF TEEVDMMKEMEKALQERDYIFGNIERL WAYLTIEQLLEKRKNAHGEKENLTAR ALDLSLKYHFVTPLTSMVVTKEPDNEDE RAIADKPGEDAEATPVSPAMSYLTSYQP PQNPPYYYVDGDPH/FSIIQIPEKDDALCFN IDEAPGTVLRLIQDAVTGLTVNGQITGD KRGSPDSKTRKTYFGKTGASPMQMGF PGWEVTTEKITLLEQARCRAFFSWLDTV TVTQDGHFLASSRRLSMMINRKNMVVS FGDGVTFVVVLHQ/VCWKKHPVPTVDF LGFYVVDSHRMSAQTHGLLGQFFQPFDF

						KVSDIRPGSDPTKPDATLVVKNHQLIVT RGSQKDYRKDASIGTKVVCWFVHNNGE GLIDGVHTDYIVPNLF
3286	11337	A	4230	1508	1686	IFFQPKECLYKNL*GLGAVAHACNPSTL GG*GGWIS*VQEFETSLGNMAKPRLYKK YKN
3287	11338	A	4231	596	729	YFPNKHGILCRVQWLSL*YQPPLWESEV GVLELKSVRTAWATW
3288	11339	A	4232	1212	1344	ATCLSLEKIQKLLIQNPGR*ASCDSSLL GCSPDLSSHFTVL
3289	11340	A	4233	2	114	
3290	11341	A	4234	1	326	
3291	11342	A	4235	37	199	
3292	11343	A	4236	3	263	
3293	11344	A	4237	164	298	
3294	11345	A	4238	60	152	
3295	11346	C	4239	512	805	MSSLPLMITDTQQAVSSGLWIGIPNYRVF TPTGTWVRXPHATESLHKFNLRNRTWEM GLQRRVXTXGTVKALESAQPPWNQ AGRGDNFLLWRKGGD*
3296	11347	A	424	1168	1627	RAGRGEGHKLNSYGGRRARSQGHLLS SALSPFVSAASYQPPQNPYYYVDGDPHFI IQIPEKDDALCFNIDEAPGTGLRLIQDAV TG\TVNGQITGDKRGSPDKTRKTYFG KLGIANAQMDFQVEVTTEKITCGTG\RA\ STFSWLDTVTVT
3297	11348	A	4240	1	361	EPRMLYTRYVSDPEFVISRVDDFVVLQL FRMSSLPLMITDTQQAVSSGLWIGIQIS LTQPGSTIS*YCSFFKSVIICHLMIT*YTTS SFFRPCGLASQIPESYPAGTWVRAPHAM EKLT
3298	11349	A	4241	545	865	PNNKHPYKSVTILSLCAVLFSLYIFNSGH FYFTSSIQFRHLNPKFNNLFYQTFVLRTK FL*II*QIKAEPLIVEHK*KIHYKKPYLFNT QVLALKLKR*GFLYIIS
3299	11350	C	4242	47	319	MVFHKARTRMKERTDTAMQAESASETN KRAHPALPPVLPXGRWARRGQEAPRP HLLSPQSGGGQAPPWRERGVTRLKLG EGCRGRLAP*

3300	11351	A	4243	211	472	STLGGS LCAQSGCSFEPLPLRGHPAMPV KCAQPLFS/SPCPPCLPRAAREGEQGEHA CWFQMHFLLALPYLCVPSSWSWLYGTP CF
3301	11352	B	4244	1	1023	MCWAPSTRGGSPALHLPLLLPHPLPAR CTGFRAPAVPSSPAGIFGHIAVIGSPFPTA GGNTSDSFSNGCSQDVGSPRLCGCGLLG VGIWLSVSQGNFATFSPSPSLSAANLVI AIGTIVMVTGFLGCLGAIKENKCLLSFFI SPVAELILLILFFVYMDKVNENAKKDLK EGLLYHTENNVLKNAWNIIQAEMRC CGVTDYTDWLPASAGGEHGSRLHGR PRAAGATAPRLCGERAAMKRSWGMASF MTLFQHIHRTGGNHVHLGPKIFASFPGA TDISSGLGGDYICDPKEKKYRKPKREPH LQ*
3302	11353	A	4245	630	841	DTGPCWRERGVTRLKLGEGRGRLAP* HLLPPPKSSSQPCAPLTPTAGWLPEEKAE VCSGCPPCSPSYKP
3303	11354	A	4246	29	360	HSLISQREKESERERARESERE**RASERE RERGRDKIPTRKGGEEVQFLQTHFFFLIF LTAFFEQYFKERGSYYRYRGKAKKGG RGEKNSRSRNPSSFTGRKKRV
3304	11355	A	4247	253	451	NWSAGAALLSAAPAHTPSPHQARPTPGS PPSAALWGSPSPSRSPPHFSPTDL*MRPE RHPSSAPF
3305	11356	A	4248	355	500	ARCGGMHLYSQIFGRLRWEHCLR*KVLS QVWWHAPVFADIWEVEVGALLEARSRL L*CAMLLPVNSHGPTWAMQ
3306	11357	C	4249	175	387	
3307	11358	A	425	87	508	MGCFIREGGEEGNLIKKRFVSEALADV RRKRRQEEWENVRKPEDPEECPEEVYDP RSLYERLQEQKDRKQQLRGTVSNCKN MVRGLDEDETNFLDEVSRQQLIEMHR IEEELIELNEYRIALWNVGISYENYEGRG
3308	11359	A	4250	342	608	AGSGTIGMLRPADERGGQSRGRGSAHPI SQAAPCPAFLNRPFTGPS/CGPVS TSLRNT AGFCPE\GPGCPPSLAEASCPLPSCRAGS HWA
3309	11360	A	4251	56	277	TVSVQRHQAVQSPVVVFTEHIPQDAWCS PSCAPGN*PPLCPTNKPCALQQGMKPL ALKKSLGGTVCCGSKRD
3310	11361	A	4252	235	721	DLADCSLQLQSRSSWKKCSTMLQKVLV PPEAATSLSHPTPRPLPHPPALGSPLOPPS NTFGP*CCLSQDAPVFPSPVKLHLVTVPA SSLANESRKGPSRVFSRTAPSSSSITSIS DSGIQNATVWSGVRLSVSASSFGLLTSPF SASGVSLSVSPLASTL
3311	11362	A	4253	1866	2283	IRILYRSPHLQLPCLTRFLVKKSYSVTGN WMVSLKD*SLRLDCWHGPNLVKLDEV WQNLGTSTKSL*NNFKNILGKINTFKTL FGGGMKLPCKVSFSIYLMVNLESHDST WHLQANQTPHFDVSPVLVLEFPFKF
3312	11363	A	4254	2	767	ELLFDKSTMRRPFGQKASSLPPIVGSRK KSGNDRHSKSTVGSSDNSSPQLKRKG KKEDVNSEKLTCLKQNVKLKNSQETIPN SDEGIFKAGAERSETRGAAEVQEDDTQ VEVPVDQRP AEIVDEEEDGEKANKDAEQ KEDFSGMNGDL*EEGGREATDAPEQVEE ILDHSEQQARPARVNGGTDEENGEELQQ VNNELQLVLDKERKSQAGSGQDEADV DPQRPPRPEVKITSPREENNQNKDYA AVA

3313	11364	A	4255	79	928	TWQRCNLNPLHIPVLCSLSSSTMWDVLL PLDRGDLHLSCIDSSNWALFRQSKVVL YHCVEADSKGLRSVDELTLNKTNLELK MESQTEKLNLYLRNNHEEAGTTQNEFKV SVCQYLSRYGGGGYHYKRQSFHKTSK ELMGRHRLLLTIANRHEIAELRWTLQTL ELELQAQWPLVRMLQQ*EP*ERLTC*R* RENQEPVQVVEEQPRANTKETRKKSSF SQPMSASTKEESQDGRRKGK*LKGRARE GKMLHQKSLGFKEYFEGRGAGPTPSGPT VTQLK
3314	11365	A	4256	235	674	SGKQNNPQATAKAEACTETRSQMGA TSSTFDYLGATSLKSPPHRKVVFFCFTIET SLHSNSL*ILLPLHSISNIQKQTQTSNLNIN LQPATAGPPSQAPPTALSELPGGRSAPEP SHAAPFARVPPSSGSPRPNARWAARA A
3315	11366	A	4257	60	471	CLGSLQPPTRVKQFSYLCLPISFFFLFF FGLFLRFSLCHRF*AV*L*CSLVLFSSCFL CLGFAMVFGSVGL*FSSLECFQALFLQT FLLSFPLFFMNSN*PCIRLTVVPRLSDAL FIFKNSFSCCADAWADAW
3316	11367	A	4258	392	517	MTLKDVAHACNPNTSGGRGGWIT*GQ FKISLANMAKPRLY
3317	11368	A	4259	446	767	IWYKSTHSSVIFKCEFFLQFLSQLALSPR HECSGAIMAHCSPLLGSDDLPAFLNFS WR*CLHYVAQPGLELLGLK*SIPPWASE SAGITGLSHHAWPKYELLLF
3318	11369	A	426	90	549	QGASQTTTRSETSLGIAR*TFLGLVFRIE RIDGNLKMHLHIVEPYVTWGFNLKSVRE LILKRQAKVKNKTIPLTDNTVIEHLGK FGFICLEDLIHEIAFPKHFQEISWFLRPF HLSVAHHATKNRVGFLKEMGTPGYRGE RINQLIRQLN
3319	11370	A	4260	119	342	ISICIKININIIYACYVYIILCIRIYLSKYILL ENCI*CTILFYVIFYVYIYLHIIYILLRLCPF FIYSWSPV
3320	11371	A	4261	374	471	GKK*KCPTHLSHLYINPGEKSYLFETSGL NF
3321	11372	A	4262	255	496	LYKFQTSVPLT*FIKALYITFYNSR*RG YYSKFKT*S*RPGMVAHACNPSTLGGRG GRIT*SQEFETSLANVAKPHVY
3322	11373	A	4263	231	417	CELPVTRHGAGCVCSSTVLP*PCPFSPV SQSPSVCLSPLFSDPCEPPYPVLESPLDC SF
3323	11374	A	4264	1204	1398	ASFLAISMVVRVGVFPFYHLFFLRQSLIL SPRLVGVR*CDRG*LQPLPGYK*FSCLG LPSSWDF
3324	11375	A	4265	581	705	LLAECGAHACIPSTLGDQGRQIT*GQEFE TSLANVVKPLY
3325	11376	A	4266	3840	4074	AQEYRGQLRQYSETMSLQKKFKNRSAG CGATCL*SQLLRRLGWEDHLSPGGRGCS EP*SHHCSPA WVTEQDLSPCHP
3326	11377	A	4267	173	421	
3327	11378	A	4268	423	595	SCLSINFHLGQAQWLMPVIPALWEAKVG RSP*VRMVSIS*FRDLPASASQSAFNISH

3328	11379	B	4269	1	1224	MPTVGKAQARRRTRDITLLDITQVLIDQ SPRKDTGLAQQTGVIVPSKGIVKYWRAQ LKGDMMKYASPAFELFYFSVRAQSTDGIV TLLDPTTREDCDISSAPNPEVRTQRQAEV AGVGLLAVKVPDEEGVLGGAPGPQKR SRVCGEPTLQRRSGPLPVARPGSRCPPT SVSSPVPEDEYGRTVVMIRLDNPGISGRT IENNPPELEKQLPGESENSPYLGPPQVLF LLRDPREDVMLLNQTPITAEEKQAVLQ AAEIFRNEQQISYNTSKGKKGDRECEEIA ETPFQIGSEAVPLDNPWNSSSSAGEWK RRHFLICILEGLERTKAKFLNCSKLSMVD QKPDENPAAFMERLREALIEQTSLSPSDV EKQLILKDKFVTQSASNIRRLKQKAIGP ISTLKNLLK*
3329	11380	A	427	215	870	RAPPNGLTDDQKKKGKGLRFRLESFLHD SWRQKRDKVRLRRLEVKPHALELPDKH SLAFVVRIDERIDGVSLVQRTIARLRKKI FSGVFVKVTPHNLKMLRIVEPYVTWGF NLKSVRELILKRGQAKVKNKTIPLTRH/S Q*WRSTWGKFGVICLEDLIHEIAFPKHF QEISWFLCPFHRLSGPSCYQK*SGLPQGD GHTWAIGVNASNQLIRQLN
3330	11381	A	4270	1016	1393	IFQLGEYIFLFLFSVFEMESHVTAQAGVQ WCNLSSLQPLPPRFK*FCSLSLSSWDYR QMPPCLANFCIFSRDGVSPCWPGWSQTP DLKRSAGHLGLPKCWDYRRETTAPSMFL QNLALVPMQQR
3331	11382	A	4271	825	1246	RAEGFCPNWCCQSNILIPCHDPSRQAQS DWACHLGWQSGSGQNHGVPAGDAL QLPGNTSRVGAPOGGSGRGRKDGPGNS H*AHGTGWRECYGDRSRKRNRFWHL APPRSEIFLIILACTLRNGSASCPRSCFDS SFLRVPRTGFRWGSTWGVTPGI
3332	11383	C	4272	442	522	MRCASPSTSKEFSCALLQCWLQDLG*
3333	11384	A	4273	322	1025	PLLCVLLAPPEGAVGDICKEDAGNMPS TSEGSYLEMAHFLRNKLAGSSVRKPDS GFLWEGALRAWSNMAAPSGGVNCEEFA EFQELLKVMRPIDDRIVHELNTTVPTPSF AGKIDASQTCKQLYESLMAAHASRDRV QKNCIAQTSADVKNLREEREKNLDDTL LKPT*EKSQRS*KWVQSELNVVEVVNDR SWKVFNERCPNSLQASKE*IKRDSFFFFF FLRTGSSHKS
3334	11385	A	4274	22	54	
3335	11386	A	4275	506	622	TRDSAHAYNPSTLGG*GGRIA*VQEFKT TRAHSYTLIPT
3336	11387	A	4276	296	495	KHVRPYITHSLGGKDFILEKIWLGIVA HACNPSTFRGQGGRTA*A*EFKTS LGNIV RPCLYLKT
3337	11388	A	4277	270	558	FWIFLRSFYVIRKHLIGHFHPWPRVLKC* KHGGWKVHGGPGQ*RQKGTGKEGRKG LRGRRELTEGARPLFSSGPVESTQIVPLP OPPYVGAAAS
3338	11389	A	4278	51	113	
3339	11390	A	4279	179	387	ILVGFCCFLPPPSNK**THHTHTHTHPH THPVVTNRISLQGICRKKGKQKTSQGPFTA TSLSPLSDSAV
3340	11391	A	428	476	821	TFTWPLFVRIERIDGVSTWCREPLQDFA LRKIFSGVFCKGTPQDSKMLRIVEPYVT WGFPNLKSVRELILKRGQAKVKNKTIPL TDNTVIEEHLGECYSLGVSWGRKPGSLK L
3341	11392	A	4280	464	596	EFSPGMGAYTRSPSTLEHSGQIT*AQEL ETSLANVRPCSYMW
3342	11393	A	4281	468	564	YAFYRTQVPGGIRLV*CRLRVLWSNLIK KQS
3343	11394	A	4282	780	837	

3344	11395	A	4283	993	1050	
3345	11396	A	4284	175	387	HFGEAEAGWITRSGDRDHPG*NDETPSL LKIQNISRAWWQAPVVSATPEAEAGEW HEPQEARACSEAEFEP
3346	11397	A	4285	161	409	PPGVIIYLFVKVRLIWGNVMTV*VYMTL LSFPYPQICITYIKYVYILPI*NIYIYTHIC IYIPLFLCLLILAIKEGAAFNV
3347	11398	A	4286	1910	2120	SVSGFWLEAMLPSLSEGQPCRLQPFIGN KSLTGWVAHACNPSTLGG*GKWIT*AHE FQTS LANMMKPCLY
3348	11399	A	4287	1156	1320	KNSS*FFYFLSYLKNKNRPGAVAHTFNP NTLGGGWIT*YQEFETSLANIGKPCLY
3349	11400	A	4288	1497	1767	PSASPPQVPALPQWTGPGRQNPL*CLH IGLCSPQPSDGPWRKACSLFQVPSHQCG RIRKKINKVHICVFTASRVRWKPKPAAA NDQL
3350	11401	C	4289	1434	1655	MKKFSHILKKKFFCTLVPIIMLKL MENLK SQCKTKEGKYCTLAENLFHHKHC FPSS DHRSHFSLELAVVKKL*
3351	11402	A	429	33	370	ATRSRLGKHTRRSKSSAIQAVRIISQVLR CKQRCMHCPRTIPATLQEHKSVNNPSAQ QRTKTWSIHTPAPHPHPAPHPSTHQ/HPH PST/PAPHPSTHQHLIHPHTSISSIRTRG
3352	11403	A	4290	275	485	TNWKLSLCEKLYSTHCTDHKAVLFP*C LSCFVLLCVLFICVLFVGFRLSFCFVFTT SVISTSFFLA VS
3353	11404	A	4291	889	1199	KKCVCVCVCVCVK*LLKLMLVGNFRA LWGSEWFLHHLSSTNRKMLSLQGHV
3354	11405	A	4292	502	768	SPCDQTPVEEGMLPKFRKSLQGS LN FH DILILPSQK*FCIRGSKTMYIWP GTVSHTC NPSTLGGQGGWIT*DQEFETSLANKVKP RLY
3355	11406	A	4293	3	309	IFGRDGFHHVQGAGLD*TPDLK*STHLG LPKCWDYRHEPPCLARRYFKNNNKKDN LLSHHTHKTTVNILPIFSSCTDVLHNHD VECNVFSLDLVNIFQSC
3356	11407	A	4294	204	317	
3357	11408	A	4295	1905	2032	VKHLDTGQK*GCNAFNVGSGPGPDAA PRWASRTPGGVNAGI
3358	11409	A	4296	2	225	KWQVTWLSFCSTFMSPSSWSSCS/PPCSA QPYAPVSCDGP PPHRFPEPLD*GRLKTY FPPPCVNWGCWGQCVISQ
3359	11410	A	4297	299	663	IAHITEIRNLILHSLNNPLWLEPTRIEKFSP RGKVTSLHPRVKKMSPSSPKNSHPPEEV GSASSFLREPSGGSQHSPYAPSIDAM VPPYRVP*TPFGIKEDLTKPLFWGITFLL PCV
3360	11411	A	4298	1	406	MDWEGSLPLVFNYCRDASLIHPRFKGV RPRRDA CLGPSPLAASPAFLGKGQTITDA ELRVTLTVEDSARLHPGEINSHVAHTKP VWWSLHTDARETHLQRT HFQSWLV/ CIRP/MNPAKSTVSSVRTQT*APLP
3361	11412	A	4299	236	768	VPCRESPRALALPRKEMMRA*NQNKTK HDSRHCRISPVGNMDIAENNYNSFKAEL GPNSSASTPPYNLFIASPPHTCSGLQFH STITDAELRVTLTVEGNRMSVVRSSFLGL NQLKLAKSMMAAYSIFEEPLASLYSNFH TK
3362	11413	A	43	46	511	QLRMAGAEGAAGRQSELEPVVSLVDVL EEDEELENEACAVLGGSESEKCSYSQGS VKRQALYACSTCTPEGEEPAGICLACSY ECHGSHKLFELYTKRIFRCDCGNSKF*N FGMQLLP*QSK/DVNSGNKYNDNFFGLY CICKRPYPDPED EIPDE
3363	11414	A	430	42	334	

3364	11415	A	4300	302	897	SVAKEGVEVEVSHTCGLKWGDIRGGCE GGFGLGEKAAMRCGCSPGIVREADNLV KVSPPSVLIKKGTDLPTVRVTRRSASV MVLTMPLAPATFLRGNCWAGGGGLVTE *NCKPDQV*GGEMIKGL*GGG/VRGCGRI ET*LGLARRSLGRRGEVRLVWRSGLLP KYCAFTVFTTARPGDPLPCLAQWVPCP WSLAHC
3365	11416	A	4301	111	275	SRNETESRTRCEEGR**KDYRVEEQRLR KNWDLARPGKEQLPAFQSGNLSRQLH
3366	11417	A	4302	3	220	SLQPLSREDLGRSQSESLGPEFQGLWEW LPGELNSPICSVPHRWDVA*EESWAAG SPWPGGQISGTC SKLL
3367	11418	A	4303	2	347	LTMPLAPATFLRGNCWAGGGGLVTE*N CKPDQV*GGEMIKGL*GGG/VRGCGRIET *LGLARRSLGRRGEVRLVWRSGLLPKY CAFTVFTTARPGDPLPCLAQWVPCPWS LAHC
3368	11419	A	4304	2	265	
3369	11420	A	4305	3	865	
3370	11421	A	4306	288	597	TDFSVRCKGCRTGPFLRLIFQDRIVGVEL IAV/C*RHGPRFSSCRLSCRPFDKTCRL MCHQRLSGFPQEQTQRDSRCIQLFRQR FAAASCPHQVLLQTOYF
3371	11422	A	4307	3	188	KPRRSRSESLGPEFQGLWECLPGELNSPI SSGVPQRWDTA*EESWAAGIPWPGGQID FWHL
3372	11423	A	4308	498	803	HLGPEFQGLWEWLPGELNSPISGVRHR WDVA*EESWAAGIPWPGGQISGTC SKLL EEEVLEEGLAAAVQAFGSSCVLEMWLG FVSQWRQGIATFFYYCTP
3373	11424	A	4309	3	338	KPRRSKGESESLGPEFQGLWEWLPGELD SPISGVPHRWDVA*EESWAAGIPWPGG QISGTC SKLLGEEVLEEHLAAAVQAFGSS CVLEMWLG FVSQWRQGTATFFYYCTP
3374	11425	A	431	55	1078	SERRRGPLCLPSDVLDCSGPPMYCGIAE PSLRRWDPQRSPLASCRLLGCLAIPRH PNFPRPIASSSILQIKMATAAAAAAVMA PPGCPGSCPNFAVVCFLERYGPLLDLPE LPFPELERVLPAPPDVGNGEVPKELVEL HLKLMRKIGKSVTADRWEKYLIKICQEF NSTWAWEMEKKGYLEMSVECKLALLK YLACECQFDDNLKFKNIINEEDADTMRLQ PIGRDKDGLMYWYQLDQDHNVRMYIEE QDDQDGSSWKIVRNRNELAETLALLK AQIDPVLLKNSSQDNSSRESPLEDEET KKEETPKQEEQKESEKMKSEEQPMDLE NRS
3375	11426	C	4310	321	734	MIKHQKKAAPVRRDRRQSFVSTDKTCLL CLSQKMKGIEIKRRERLKSKEKVWLRD RERLEKRTILRASVFKGEKPAAGERGKV WSCDSIHLVQEKGRPQISVLCILNHRKY SPRFSVWSLKPPSMKLEVRRCQR*
3376	11427	A	4311	867	1111	RHCRYGTR/ARCRSANAGAMILTMKQL AIVMRVYQHQRVRRSMRPGNRGARSMS AVGAYYSSCIRVMTALQSGTGDDEAVL L
3377	11428	A	4312	1	560	
3378	11429	A	4313	2	268	
3379	11430	A	4314	11	783	NLFLRPQKDQTYWYHRIQLGQTKHLLKEL KVYTYLLYATISF*DV*RHC/RSAILAEAK ETKETHFIRGPKTLAPVTDWEGSLPLVFN QCRDASLIHPRFKGFRPRRDACLGPSPL AASPAFLGKGQRLKTDARLPWKPPDH HRRRASGNSHSGRVQPPSRLPSWAHVEC LRLFQEHGASCQWIYRSGIWRTVVFMC VRVKRPPNRLCVSNMAVYFTWVQVHYP LYENNKTLRALRMIHVESLACGVRESS

						TNDNYY
3380	11431	A	4315	177	434	LCLWLQPPF*E*IAGQVGE*SRNETVSR TQCEGR**KDYRVEEQRLRKNWDLAR PGEEQLVPSSEKRDPLRVKDQGRCPV V
3381	11432	A	4316	1332	1602	
3382	11433	A	4317	797	954	
3383	11434	A	4318	1	817	
3384	11435	A	4319	3	93	LSPS*AIISPVPCTYTPRWPEATEDPQKK
3385	11436	A	432	1	568	
3386	11437	A	4320	874	1114	ESLGAQAEDYCRSGALTESLY*SSSKRK CGVGVPKQSLLYSTV*WSCGRGSLSRFP QNDRASSFPQYEEKSTEAKLPKGL
3387	11438	A	4321	264	1259	GDRWEGKKEDLGRVALGTETRKGLMC KRMFGH/AGTSDHLSILGQELFRSCRM KLK/RAI/CPAIWNYCRVCIGVKRHCRRK *DA*ILQDLNNSCPKIDKWSEVPDVQAFF YTSVPS
3388	11439	A	4322	607	769	SQVLRPTQPKEHLANFKSEDRSVRPLSPS *AIKSPVTCTCTSR*PEATEDPQKK
3389	11440	A	4323	495	658	GLTGTTWAHAFTHWLVLVLSHSTELSGC ERLCGPAELGTFTLWLF*RKPFADHWP
3390	11441	C	4324	218	352	
3391	11442	A	4325	444	994	PMTHPFFFFPAEVHEPNQRQAFLVPVSQ ARWTASSLFSSWVSASTSPQLEELQGST QTHFSATCSQQPSRCVETVDPSSLLTQ QGLAFSAPTGRQAQRCSARMAWNPGRP LPPPSVHPCTPHCP*GPPQPPSASTPWG SCCSRWGHQAILGCRDRERCRGTCSSRP WLPLCLLPRFPDKWS
3392	11443	C	4326	296	625	MVSEGHTSPLAKSSASELHRTSWSTDNG MDFWRECQFRAKEIQGENEALNKSSKR AQKLVSIDLNERQVRRKYIVNAGSLLH FILSLLSSIHLLKTAFCVLLQGNLYTL*
3393	11444	A	4327	221	344	KVLSSDFCSVPFCVCVCVCVCVCVCVCV LTLL*NSSIIYGH
3394	11445	A	4328	441	656	AHNYIYFQRYIHQTYTDTGRGMRIGMR DQKKRPGTVAHTCNPSTMGG*CRKTSQ GQEFKTRLSNTVRPNL
3395	11446	A	4329	409	749	RRGRERKRHTHIHTHTHTANLFVSVFLY FLSFLHLCALCLS*WM*RCSANPILPTGP YASQTFMILPSCCTVISLPCHWLLFPQYS QTLYSLFTELNGQITVTSAKITYTSKI
3396	11447	A	433	1	572	ANNSPALTGNSQPQHAAAAAQQQQQ CGGGGATKPAVSGKQGNVLPWNGEKT MNLNPMILTNILSSPYFKVQLYELKTYHE VVDEIYFKVTHVEPWEKGRKTAGQTG MCGGVRGVGTGGIVSTAFCLLYKLFTLK LTRKQVMGLITHDTPYIRALGFMYIRYT QPPKDLWDWFESFLDDEEVCQQG
3397	11448	A	4330	1682	2410	LNKGGQTDIASSQTCLVGHVESDGAHHT TMIGPNEPAFLSPENNNCPWQRRWTHI QKKKMNGMHTHRRNEAETIAGILTVQE LFPRNTSLTVIDVHSHSVLFCCTTIQVLISQ VNHLYLPLPQAFKFPVIFIIITSTGLLFTYV RVVMYNFVISYNGKKNQNI*KVICTELY FSSFLKMICMVRKRRGQPGEGRASRELC TFYTFVLCTALLILHPIMILLEPICKKLLR

					KFICVYVNNIT
3398	11449	A	4331	2	57
3399	11450	A	4332	19	192
3400	11451	C	4333	218	364
					MTRVSSCFSDLATDRSFTHKGNNIVSSNS KIISLTWMGFEILKTQHKI*
3401	11452	A	4334	172	304
					PSPVFLAPGGVRAGNSLYPRGPGFH*PRF GPFPPRGTKREPPF
3402	11453	A	4335	258	509
					RGHSKQQRDIPRVLDHLMINFSFKIVTV RSLYSFI*KQAQVKLFLHLHPIPSSHTHT THTHTKPTLLLTGPSDDSWVFRWC
3403	11454	A	4336	1	2411
					MSFLGILCKCPLQNESQEESYNAYPLPA VKVSMDWLRLRPRVFQEAUVDERQYIW PWLISLLNSFHPHEEDLSSISATPLPEEFE LQGFLALRPSFRNLDFSQGHQGITGDKE GQQRRIQQRLISIGKWIADNQPRIQCE NEVGKLLFITEIPELILEDPSEAKENLILQE TSVIESLAADGSPGLKSVLSTSRNLSNNC DTGEKPVVTFKENIKTREVNRDQGRSFP PKEVRRDYSGKITVTKNDGKKDNNKRK TETKKCTLEKLQETGKQNVAVQVKSQT ELRKTPVSEARKTPVTQPTQASNSQFIPI HHPGAFPLPSRPGFPPTYVIPPVAFSM GSGYTFPAGVSVPGTFLQPTAHSPAGNQ VQAGKQSHIPYSQQRPSGPGPMNQGPQQ SQPPSQQLTSLPAQPTAQSTSQLQVQAL TQQQQSPTKAVPALGKSPHHSQFQQYQ QADASKQLWNPPQVQGGLKIMPVKQP YYLQTQDPIKLFEPQLQPPVMQQQPLEK KMKPFPMEPYNHNPSEVKVPEFYWDSS YSMADNRSVMAQQANIDRRGKRSPGIF RPEQDPVPRMPFEKSLLEKPSELMSHSS FLSLTGFSLNQERYPNNSMFNEVYGKLN TSSSKAELSPSMAPQETSLYSLFEGTPWS PSLPASSDHSTPASQSPHSSNPSSLPSSPPT HNHNSVPFSNFGPIGTPHNRDRRTADR WKTDKPAMGGFGIDYLSATSFSESSWH QASTVSGTWTGHGPSMEDSSAVLMESL KSIWSSSMHHPGSALEQLLMQQKQKQ QRGQGTMMNPPH
3404	11455	A	4337	17	300
					TFKFYRNLNLFILKKSVMYATFFIYLYI YASFLVLTEIFYFIHISKELLPVFIYQVYF PCFFLG*FIYLSSKNPPYNLFILLPFYNFF NN
3405	11456	A	4338	257	476
					KAQMSLLDTLTHPVWLLCLKLCGAV*V KL*EYF*SICNICTAICVCGVCLCIYVTMC VCVRAIERKLKEECLS
3406	11457	A	4339	283	494
					GQRCEPPPLPSFG*DSG*EPPFPAFQKA GGPASPSGPPGPH*DPTGPASEWKMAT MGNRPPEMVSA
3407	11458	A	434	6	223
					TVTNFGEISGTIAIEMDEGTIHALDNGL FTLGAPHK/ERIALKSGYGKYLGINDEL VGHSDAIGPREQWEH
3408	11459	A	4340	766	1083
					FKHFGPFKHHLMLVLFKIQNVLFKDGNT FEVRRGGSRLSSQHFGRRADCLMSSV V*SQPGQCGETLSLKKNTKISQA*WHVP VVQATWEAELGGSLEPRRLRLQ
3409	11460	A	4341	2	163
					FVFFVETGFHYVGQTGLELLTS*SARLGL PKCWDYRHEPPRPAYVEYFYSALL
3410	11461	A	4342	192	440
					ATVWEEPPCSPPIPRARFWGPRPPECSS RGQKPKPAYMSPPDAWRPAWLPSSTPT

					YD*T
3411	11462	A	4343	1875	2210 PLSQVITGKHQKRKRHLEEGKERPEKEQ SKHKRKKSYEDTDLDKDKSIRQRKREED RVKVSSGKLKHKRKKKSP*VYPPRKN VSTGKRKRNLKKGQKRKCFGMSLFLG F
3412	11463	C	4344	217	396 MSEETAKEVMRAYLQQLRQETGLRLCE KVFD PQNDKPSKWWTCFVKRQFMNKS L SXPQG*
3413	11464	A	4345	1	546
3414	11465	A	4346	216	324 VFFFSL*NEADRTLIVITLYISECLKKLQK VIKLG
3415	11466	A	4347	71	650 NPGAAMKPAYHS\SLMDPDTKLIGNMAL LPIRSQFKGPAPRETKDTDIVDEAIYFK\ ANVVFQNYEIKNEADRTLIVITLYISE\ C LKETA KSGNSKKPKVEERKCFGLGIH*FF PFPGE PGGFFPL*ROFFAKPANKQEDEV M RAYLQQLRQETGLRLCEKVFD PQNDKPS KWWTCFVKRQFMNKSLSGPGQ
3416	11467	A	4348	552	872 SGPNCCEEADAQLAEESGNASHTSFTV* VRPRACHACNPSTLGG*GGRIA*SQEFE TNLGNTVRPCRNSGEVLNRKTVSIRRAL RVFSPLHTARLHPAAAAARAARA
3417	11468	A	4349	199	375 FSLGGIPPFHRRGNWVSREWPGTVAHTF NPSTLEGRGRWIT*GQEFETSLTNMVKT CLY
3418	11469	A	435	3	685 RTQSGNVYFASTSVPPRPGAAPGHILVLS RLQPLRAEVSRSLLRVEYSYVKTTKL V FKGTKAKSKKKKSKDKK*QREDEETQL DIVGIWWTVTNFGEISGTIAIEMDKGT YI HALDNGLFTLGAPHKEVDEGPSPEQ FT AIVKLSDSRIALKSGYGKYLGINSDGL VV GRSDAIGPREQWEPVFKMGKMA LSTSN SCFIRNHEAEDIEAKSKTAG EEEMIKIRS
3419	11470	A	4350	368	546
3420	11471	A	4351	2	211 YVYIYKGIESRVSRACITPSMAALVDKR WKKPKCPLMYEWINKM*YTHTMEYYTE *KRKYCSTLSHATI
3421	11472	A	4352	1	676 PK*WGFLPLIYKKGKDGGGTWGGDVLP SPSLGQGGGKKGWPKREGGRDLGAERK AGKCREKWKQSKMKGRSRKTGGERV K KPEKHQDTGLFPFQIGGGGLRLSRVC VP QPQVGRGSVSLAQFLSCTSSD
3422	11473	A	4353	1029	1252 CKFVYSSLLFIYSSFFICLFIFLPAPVLIYP LAH*LCKPCSSYMSWVNIQYSIYFRHKC FRNIVQKILYSIKM
3423	11474	A	4354	299	561 FPSWQRDAQASLTSPAPLIYPKATPFRKR PFRRLWNKGLIQSKLTQRLYTVAHTCN PSTLGG*GRQMTWGQKFKTSLANMV KPRLY
3424	11475	A	4355	17	195 FMDAQVTFKLYIYIYTYVCTYMYIYTY V*MCEYLFYIYARIYMYI*MHYTYISL TP
3425	11476	A	4356	3	565
3426	11477	A	4357	1	597
3427	11478	A	4358	1	567
3428	11479	A	4359	1596	12368
3429	11480	A	436	115	662 AGFSLSAQKSPGAMA*YSYVKSSKLVLK GTASKKKKSKEKKRKREDEETQFD/IVGI W*TVTNFDEISGTIAIEMDEGTIHALDN GLFTLGAPHK/ERIALKSGYGKYLGINSD ELVV/GRSDAIGPREQWEPVFQNGACAA VFTVIGSEKQSECSLLRESRAKYHGCTH GQISSSLKQHPRWY

3430	11481	A	4360	48	436	RTGSSSGLSISATCLISQRRYSEDCWNVY SLVRSG*ERGS*LLSTYYVLGSLPDVFTY INSFQKTYLK*MGPGMVVHAWNPSLTLG G*GRRTA*GRELETSLSNIVRPLNNNNN NNNSNNEVNGIRKEG
3431	11482	A	4361	2	2551	
3432	11483	A	4362	322	1288	RKNWGLRKPWSSSLKQEQNLPEFSGSKK AFFGSTWRKKDGEPEFQGSGLCPLLKAR PLLSQLPLLRAISTRKPGQTWKNKEHHL SDREFVFKEPQQVVRRAPEPRVIDREGV YEISLPTGVSRVCLYPGFVDVKEADWIL EQLCQDVPWKQRTGIREDITYHQRLTA WYGELPYTYSRITMEPNPHWHPVLGTL* NRIEENTGHTFNSLLCNLYRNEKDSVDW HSDDEPSLGRCPHSLSFGATRTEFMRK KPPPEENGDTYTYVERVKIPLDHGTLIME GATQADWQHRSQAQNTTLREPRVNLTF RTVYPDPRGAPW
3433	11484	A	4363	249	906	RIHFPRVSGPSQSNPKFAVASRGFFSLSL SAQPDPLPPPLGEALALSLHPVPRSTET VAGDSSELQLGLRSPQQPLAGLAFLARL FLLFPPP*RCKSKPN*NDRRRSSVDSQIHL VGRESAHLPLAGLRVCVSLPLARCFGQV LQGVPLWIPSPGGS/AGVSGRRREERH MGVVVMRVRVEARVSS*ESKI/SRALR*S THLGLPKCWDYRREPPCPAH
3434	11485	A	4364	843	1186	QHSTKNSGGWAQTPYGSQSIVCVYIHT YIHIYIFFFFLVETESHVTOAGVQWHN LSSL*PPPPGFKRFFCFLPSSWDYRRTPP HPANFCFSRDGVSPYWPWGSRTDRLR
3435	11486	A	4365	127	601	NLILNVTWPTQLAKQERLHLRLKTSVV WVVRKEKPTRFRLGAVSHCPQLLILQL VLSPTSKTLP*EPPDSESP*PKRK GKPSW GRTGAPNLHSPPLSPEGPPWAAWNPLKL PPQHSAGVPSACSPWAGSVPAAPPSV CYLIYWNLHSQALHR
3436	11487	A	4366	30	436	RRRCGGCFPALPGSPHKPHEQLPPLCPRV PVA*PSSSAEHPDPRAKG GGGRL*AGS SPGAVPHPPSIPGRKNRMGSLEG/RGAP APRRGSGAGAAE/ASLTWPGSTGPAPG SHGCSAGVGPSRWAWSLPQRCGRC
3437	11488	A	4367	497	924	KRGSRGWFFSTFHHLWGRLQAHLLGPT PALQPCDPGAGARTARPGQTASAAPPL PPRRGAGAPPLRDLARVPAPCCAQRAP PSSSQPGRNQ**AASGPWRPPRQAEKEA SAGKRRDRPVGARKTAAERDRRGQASG GQTR
3438	11489	C	4368	226	405	MCEKQPQNTTSFQGSYPKYTRGSLPELR QLLKVELFKGNWEHLQPRSMMLVRSG LSQE*
3439	11490	A	4369	3	275	TSMYVGPVAKDLLHPSAEENRKHTMK RLAQSPNSYFMEAKSP*CYKITTAFTHA QTVGWVWVCSTVLCQPTGGEARLTERC AFTRNQR
3440	11491	A	437	1	380	GPPASVRTDSGHPRRAEGAVSTRTQAD PLAPCGPPRPAGGQAYARLLLQCLLA AARPSSADGSAPDSPFTSPPLREEIMSN FSLESHNISLTHSSMPVENNITLERPSNV NLTCQFTTSGD
3441	11492	A	4370	266	455	AQWHTSIVLAAWEAAAAGLLEPRS*SRL KCTMIIPINSHCTPAWQHMRPCLLKKNF SNSFISK
3442	11493	C	4371	409	507	MNTRFLTCVPGWVKNDNYSIVCIDFPLV VIAI*
3443	11494	A	4372	870	1027	HLCMCVRVCVCACMCTLLHLFSNGFII* CFCTST*AIHVMG*VAIKMYINDP

3444	11495	A	4373	1	690	FHHLEDSIIIEIFDAFLTLRKKKRKKKHNHNG NMPIFSKLFHMFVNPMKISTSLFF*HKYMI VPISQSHQYSSNGLSVLFLPVYRHSLSFF MILSTLSFRCLANILSHSLFILLGLLINRSL SM*SVLLIY*Y*SYILLQYLLTVLEFFSFHI *VFSLLRILFFFKIFTFSIWMPLSQSYLLR HSVFTDVPYLISYILICVDLFLNLTFCSIG LFILGLTQHCLNSSSFIII*QSISSHLVQ* DCLCLHLCIFCALSCATKTKNKDVEIFIG LTM
3445	11496	A	4374	393	491	GLYLHRPIPHDKLLVQLSCPFR*THRG TES
3446	11497	A	4375	435	524	
3447	11498	A	4376	293	1228	NADNSLENFCRKSASCDLEQRRFIIRFIKL RRGSFSERKQQHSVTRKYSFIONWVLEK DNKALNTRVIYNRFLFMMYKIKQNTDD GDCRLLCSYHVLDRHCCKGSTCIDPFFL MTNYWCNYHAHFIDEHTEAQRARNGK QGDECEVGGIESRRRSGNSGARYVHDSS PPTSGIHSNARPSVRLFLATLSKIAFLTV SLLYEMTVHIYGEPLPRRQRTQLLEGVG TLNGSVASVDPVFRNQQHLATGSLMA SSSFCSVLEIHGQSLIMKTLP*ITHTHTH THSHTHHTERERERERETEREERVKF
3448	11499	A	4377	953	1317	VLTGVSPLYVSKGFWFFLLFS*TMFSH SPTWAILESWSSLARFSGMSGEPQMTPIG LQYLA*G*RPNRPTLVTFTEIS*VYFFILP LMSQ*MCLMHLFPLPQTFCLQLYFFM AHIST
3449	11500	A	4378	9	359	PRKAELRIFEKVSVDAMAEDMEKLRPR LKKVHIRELVLASIMPKTHKPMTLRVT WREMLR\PRDLK*EVEGGCRRCSSPR/V DPPGGRREFRGGVRVRGRG\SAPPGGPG LSAML
3450	11501	A	4379	223	458	CLRRINPCSPRCRRPAWRRRRPGPRTRR RTDS*IRPKSGAASHPPGGAEGIPRGCS TRSRTRRRPEAPASRPCCLRI
3451	11502	A	438	3	217	RVMSHRKV\SAPRRGSLGFLPRKRSSRH RGKVNSLPKEDLVHPLHLTCYLEDSPAF ADIVRNVYKTGGSAMN
3452	11503	A	4380	887	1172	FFPESELAQPEKRF*VPGKGRGLSPRRL PPRCRRPAWRRRRPGPRTRRRRTDS*IRPK SGAASHPPGGAEGIPRGCGQTRSRTRRR PEAPASRPC
3453	11504	C	4381	22	255	MPSSSAQLLLPHEVSPVLSCQLCFLKTR VCSYLWATVILGLDYCNLSLIPCLVSYFLL SLSLPCISVVFRQTQILLHY*
3454	11505	A	4382	23	361	LTTLVFAGTGPKKRRGGNQWR*SPHYSC SGGTGGRPRPAFSLPGAPGQSGQISQSD WRRGPCS*SSGWCNSC/HPGWPLVRGG MTS*WSYS*ATGP/GPGYKAIPGAS*RST SL
3455	11506	A	4383	2	310	PLLAHPPPWSLPVTS*PRCGSPORTSSW NRHSHRPA*SLPCLGFAGTGGKRRGGN QWR*SPHYSCSGGTGGRPAFSLPGAP GQSGQISQSDWRRGPCS
3456	11507	A	4384	1021	1565	PHLSPAGTPLLAHPPPWSLPVTS*PRCG SPORTSSWNRHSHRPA*SLPCLGFAGTPG KKRRGGNQWR*SPHYSCSGGTGGRPA AFSLPGAPGQSGQISVPPCRVPPLLQSRA AGPSPSSFSKWELYCSHHILPPLLYAHCQ ESLNTQQRLEASLSSLNASEPTTAKCPH GTAACLLGD
3457	11508	C	4385	361	612	
3458	11509	A	4386	448	683	VNMERKKDLTESSLPVPTKVPGMRMK LS*TLKTSLATRCQTL SRLCSPPTNQRLS QQEGVGVGEKELRIYLAMWIK

3459	11510	A	4387	1977	2160	VNMERKKDLTESSLPAVPTKVPGMRMK LS*TLKTSLATRCQTL SRLCSPPTNQRLS QOEGV
3460	11511	A	4388	145	370	GRVLLVLFCEFFETESRVA*AGVQWRHR GSLQP*ASVSYELEAAVGYGGTTALQPG RQSRALYLKTKTKNFLNLS
3461	11512	A	4389	248	452	GWVFTMLARMVLQ*NHLNPGGGGCSEL RSHHCTPAWATE*DSVSKKKEKMKMR NETKTKWTCSPFIT
3462	11513	A	439	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLT LAIHFGKEFTPEVQASWQKMTGVASA LSSRYH
3463	11514	A	4390	141	354	ARWADWLPLGIANCPRAHLAYLETWEL EAHWKRTIVNFCVCVCLCM*VCLVALR LFCSSGMHHSFNALQ
3464	11515	A	4391	354	592	IRCTQAFALTSVVS GPGTVAHASNPSTLG G*GGQIT*PREFKTSLGKMAKPCLYKNL GRHGDLCQARLLQLAEVEGFT
3465	11516	A	4392	63	353	ATEPVWPPCLWPQPLCAKDCRGVARP* CVRPPKASLVSPSSAGNASSIFMDYKCL SPCPFKQFLSSPPQSTEPSPACELGLINVN LSSRPSLPSR
3466	11517	A	4393	357	559	LILETGSVCVFQAGVK*LCTSVIIAHYSL DLLGSSNPPTS DSRVPGCGDVHLYSQVD AAANLVVVA
3467	11518	A	4394	1048	1599	CRSKWGLASILWLKSFLLGHHLGDDGFK A*FKFHSKFTVLASSKCLLVGFG*SHNYG *VRIHLFIY*IFIHF*KDFKSMFPRLVLSSW PQAILPPWPPKVLGLQVLANCIPMFHF NWLKSSKWLR
3468	11519	A	4395	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLT LAIHFGKEFTPEVQASWQKMTGVASA LSSRYH
3469	11520	A	4396	38	553	APSPDAMGHFTEEDKATITSLWGKVN VEDAGGETLGRLLVVYPWTQRFFDSFGNL SSASAIMGNPKVKAHGKKVLTILGEMP* KHLDDLKGTFQAQA*SELALVDKLHVG S*RTFKLPGEMLLVTRFWQSHFRQKNFT PEGARLSWAERWVTWSWPVALVLPRLP LKLNCP
3470	11521	A	4397	74	432	TTGTLESLSNNAFCGALLPHPPAPGE*R PWS*HFTRYLGPLNRCAWEGGRG*TGPG LPSLGKALVEGIPSESPGPTVSHPPCSSRP DPDQSAASLHQVPPPTVHCCHLTLP MPGWGPQ
3471	11522	A	4398	1	176	
3472	11523	A	4399	1	188	
3473	11524	A	44	275	403	FSHFWPPEFLRD*MWLGVAHACNPST LGGRGRWIT*GQES
3474	11525	A	440	37	527	APSPDAMGHFTEEDKATITSLWGKVN VEDAGGETLGRLLVVYPWTQRFFDSFGNL SSASAIMGNPKVKAHGKKVLTSLGDAIK HLG*SQGAPFAQA*SELHCDKPAMWDP ENFKAPGEMLLVTRFGQSHFRKNFTPE GCKASWAERWVTGVAASALVPSRYH
3475	11526	A	4400	1	118	
3476	11527	A	4401	1	227	
3477	11528	A	4402	1	157	
3478	11529	A	4403	1	133	
3479	11530	A	4404	1	169	

3480	11531	A	4405	1	143	
3481	11532	A	4406	1	89	
3482	11533	A	4407	1	166	
3483	11534	A	4408	1	190	
3484	11535	C	4409	21	218	
3485	11536	A	441	68	398	GPASNRALGFVVLETRMVSASVSDPPTS TTGSTMCECISIHVGQAGVQMGNACWE LYCLEHDIQPSGTMPSHKALWSSDNSFN TFFRETQPGRHVPGLSVDLEPAVIAQ
3486	11537	A	4410	1	206	
3487	11538	A	4411	2	185	
3488	11539	C	4412	247	393	
3489	11540	A	4413	1229	1784	RCRREMGSLSHSSVMVDSGFLWPCWRG PGSRTSNTVENRNPPPPRHPLGQLFILFQ SLSLHLSLS/CLSLSTSFQSLFLNLSVSLC QSLPSPSL/CFSIPLSNHTHTHTHTHTHT HTHTHTHTESGRC*SVLFFPPCPYLHYR *G*GVGSAALSLPTPHYEMTVFKGNLLY LPAVSIVSRVNL
3490	11541	A	4414	76	297	EIRTLRSSLQSLWRRDVRWISGSLCKGH ASDHQLCQH*CTHTHTHTRTHHTHTHT HTHTHTHTHTHTHTPKMA
3491	11542	A	4415	48	327	EELEALRR\QRLAELQAKHGDPGDA\AQ QEAKHREAEMRNSILAQVLDQSARARV SEQGLIEILKKVSQTEKTTTVKFNRKRV MDSDEDDDY
3492	11543	A	4416	786	905	VSEQGLIEILKK*CQLTEKTSTVKFNRRK VMDSDEDDDY
3493	11544	C	4417	58	237	MAAELEALRRPEAGRAAGPNTGDPGD AAPTGSQSTGQAEMRNSILAQVSGSSPA PGPG*
3494	11545	A	4418	115	432	LSK*CNKYTIHTHTHTHTHTHTLLNQPL K
3495	11546	A	4419	10	398	ENTVFIGLLKQQTRNIIPLKIFCLRLKIPP LTMPSPPPSPFRKSPDLVPAHTPKEGRLW PWPGPPGGPSKAAHARRPLSTCOD*PPQ REILPGPQPTSPTHCRMSREGRSGGTGAR ACQLPLLRPLAS
3496	11547	A	442	3	398	
3497	11548	A	4420	551	792	INFFFF*IIDRFSLCHPGWTAVAQSRLTAT LLPSRFKRFLCLSLPSSWEYRPLPPYPAN FCSKLLICLSTFYKDCGNSA
3498	11549	A	4421	56	193	
3499	11550	A	4422	1	3552	
3500	11551	A	4423	373	593	KKSLESINSRLQLVMKSGKYVLGYKQTL KMIRQGKAKLVILANNWPALR*SKRLNV LRLPRIHRERIYRSVNL
3501	11552	A	4424	118	206	VGGRPRSLRQGRWVARKEDEKSRWESI NSRL\QLVMKSGKYCPWGTSETLKMIR Q\GKAKLVILANNCPALRKSEIEYYAMLE K\TGVHHYSGNNIELGTA\CGKYRVCT L\AIDSGGL*PFI*KACPEQTW*KEDEKS RWESINS
3502	11553	A	4425	1134	1287	HGQINQMEVNLPMDRKV*THHTHTHT HTHTHTHSSTSCPYTLKRNVKS
3503	11554	A	4426	102	443	SPIIPLPITTINILVYVLLAFLCIYHT*1YLY IIFFFTNIYSYTYCFITCVFHLIYIVNIIVY SLKNFTDTCSLWKIRSYRYAKRKYNCS KSHLPEINAFWLQVVSFQTL
3504	11555	A	4427	263	615	LVNVEGNIWVKLCHELQHGPNSSPFLIL LSHSEKINRASIMLKRYKLNNYILSAF NPPPGKIHTHTHTHTHTHTHTHTESQKV ST*EIT*IFPQQYTNLQREEHCYFLSHSE
3505	11556	A	4428	839	963	CVNGLVLGQAQLLRPVIPAL*EAEAGRL LEPRSSRSWANM

3506	11557	A	4429	526	710	MGVWLNILPTIFGDQSAKLGTLQFKPAR HEFSQSGRTSFPIMPSPRLPDVA*ENPNG SLDP
3507	11558	A	443	1	255	
3508	11559	A	4430	2	539	
3509	11560	A	4431	920	1110	TAVVFLNKLQLHF*KFLSEAFDNEYGIA YNSLSSEILERLQKIDAPPSASVEWCRKC FGAPLI
3510	11561	A	4432	38	571	GSHRRCSEFITNYVHLYIFTLYIYIYIYIY IYIYTQMHSPPAHSVT*LYGNTSLSATLE RPVTPAVVAVGFRVRSEKQLIVYEGARP RG
3511	11562	A	4433	145	675	NVAVASLSGAHTWKKQSQVCFVSAGLE TSMEAAIGDLSVFPGLTQLEGIOGLVEP VQA*ASSWSSR*AAHSQGPQHPSYHRSH LPKPTQRNPERSQMEAPSPKPLDQPVPE KRHRGASAMRRRKPISEFLAEMLHVLA VREIELTNCPPHPEPNLATGKMTWLRSSS GFCESENRVT
3512	11563	A	4434	328	333	AFEFKRIDILTFKSSFAGSL*E*LHTHTHT HTHTHTNTCFLTMKELSNHPGNK
3513	11564	A	4435	1461	1710	SGVLGRAALLKPPSRARSSGGSSLSILR LSSPGLSSPSLPCPTSQDRGIPFQTFHLN VALT*AAHEMDWREPCVKTRTGS
3514	11565	A	4439	3	451	
3515	11566	A	444	2	732	YLVSCFRDMAFNFGAPSGTSGTAAATA APGVGFGGFGTTSTTAGSAFSSAPTNTG TTGLFGGTQNKGFSGTGTGTTGTSTG LGTGLGTGLGFGGFNTQQQQQTAVGYS CMPSNKDEGLVVLVFNKKETEIRSQQQ QLVESLHKVLGGNQTLTVNVEGKTLP DDQTEVVIIYVVERSPPNGTSRRVPATTLY AHFEQANIKTQLQQLGVTLSTMTRTELSP AQIKQLLQNPAGMFLESQSS
3516	11567	A	4440	26	529	NSTDSETHPWLLSPADKTVNKAIAWGI KVGAGAGEYGAEALERMFLSFPTTKITY FPHFDLSHGFAQVKGWHGKKVADALT KAVAHVDDMPKRRCP*SDLHAHKLAR VGPGSTFKLLASHLPCLGEPWAAHLPRPS FNPWRLQRLPWGQSFLGFLKHRCLNLP NTR
3517	11568	A	4441	294	600	ISCFLCSETLSNFALFLKESNGPVKVWGS IK/AMTENLHGFHVHEFGDNTAGRVLCF FLECIWEL*FII*LFLLINRICTSAGPHFN PLSRKHGGPKDEER
3518	11569	A	4442	517	758	
3519	11570	A	4443	80	725	SPAASGGFPLQSLPRTLGRGLSDFGDRS PVCVLKGRRPKCRGIINFQKCRSNGP VKVWGS/IKGLT*KALHGFHVHVEFGD NTARLYQVQGPHFNPLSQKTTVGPKIDE ESHG*DLGQCDCLTKNGVADVSNEDFV NLTLQGD/HCNIGRTLVPWKKPDDLGP KVGNE/ESSKTGNAGKSVWPCGVIGIA RINIPLGCSLRPPKLCVSC
3520	11571	A	4444	415	635	
3521	11572	A	4445	2	478	MAGKQAVSASGKWLMGIRKWYYNAAE FNKLGLMRDDTIYEDEDVKEAIRRLPEN LYNDRMFRIKRALDLNLKHQILPKEQWT KYE/EGLCSSSALCFLR*KDQPIECPSR SQUELL*SKLSPL*TAJET*AKENFYLEPY LKAEVIRERKEREWAKK
3522	11573	A	4446	323	400	
3523	11574	A	4447	2	396	RPPTTTKFAAARQMAGKQAV*STQAKG LNG/IFKKWYYNAARIQNLGLMRDDT IYEDEDVKRSP*EDFPENLYNDRMFRH* EGHWTLNLKHQILPKEQWTNFEENFY LEPYLKE/VLFRERKEREWAKK

3524	11575	A	4448	3	314	
3525	11576	A	4449	5	340	GSGETSAKAFRSIWGPLEPPVHRHGSPRSSV QR/DGPGLGTGEPRVYIRNKVANTGVPG APGPSIGGVTA PATDYCHRIAPILAARRR RRRRRRRRRRRRGGGGGVAGGGGGG G
3526	11577	A	445	2	681	AREGSALRVAGVTYLVSCFRDMAFNFG APSGTCGTAAATAAPA/GNTFLLFGGGF GGFGTTSTTAGSAFSFSAPTNTGTTGLFG GTQNKGFGTGFGTTTGTSTGLTGLG TGLGFGGFNTQQQQQQTTLGGLFSQPT QAPTQSNQLINTASALSAPTLLGDERDAI LAKWNQLQAFWGTGKGYFNNNIPPVEF TQENPFCRFKAVGYSCMPSNKGDEDGLV VLVFK
3527	11578	A	4450	1	117	
3528	11579	A	4451	1	1973	DGGARARGRAAARRRRRRRRRRRRRRR RRRRRRRRRRRRRRRLGLERPQTSRGR APGASRAEEKMEELVVEVRGSGNAFYK AFVKDVHEDSITVAFENNWQPDRIPIFH DVRFPFPGYKNDINESDEVEVYSRANE KEPCCWWLAKVRMIKGEFYVIEYAACD ATYNEIVTIERLRSVNPKNPATKDTFHKI KLDVPEDLRQMCakeAAHKDFKAVG AFSVTYDPENYQLVILSINEVTSKRAHM LIDMHFRSLRTKLSLIMRNEEASKQLESS RQLASRFHEQFIVREDLMGLAIGTHGANI QQARKVPGVTAIDLDEDTCTFHIYGEDQ DAVKKARSFLEFAEDVIQVPRNLVVIGK NGKLIQEIVDKSGVVRVRIEANEKNVP QEEEIMPNSLPSNNSRVGPNAPPEKKHL DIKENSTHFSQPNSTKVQRGMVPFVFG TKDSIANATVLLDYHLNLYLKEVDQLRLE RLQIDEQLRQIGASSRPPNRTDKEKSYV TDDGQGMGRGSRPYRNRGHGRRGPGYT SGTNSEASNASETESDHRDELSDWSLAP TEERESFLRRGDGRRRRGGGKGQGGG GRGGGFKGNDHDSRTDNRPNPREAKG RTTDGSLQNTSSEGSRLRTGKDRNQKKE KPDSVDGQQPLVNGVP
3529	11580	A	4452	1	2115	
3530	11581	A	4453	2	424	
3531	11582	A	4454	1	456	RPRRPQREPTMVLSPADKTNVKAAWGK VGAHAGEYGAEALERCFCLSHHQDLLS HFDLSHGSSQVKGHGKKVADALTNVAG HVDDMPNALSALSDLHAHKLVRDPVNF KLLSHCLLVTLAAHLPAEFTPAVHAFLD KFLASVSTVLTSKYR
3532	11583	A	4455	25	640	EFHRLRENPPWCLSPA\DKTKAQRPPRLK LGAHA\GEYGGEPLERMFLSFPTTKDLLP ALRP*ATVSAQG*RAHGK\KVADALTN AVA\HVD\DMPTALTAPERTCNGAQAF GWDVPVQLSSS*SHLPCLGEPWAAHLPRP SSTPGGCKASLGTKFPGLFVEAPLLEPSK LPLKLGSLRVGHCFAPLGLPSPSPSCT RTPVVFE
3533	11584	A	4456	906	1046	PDHHNWSQ*TTTGAQRQT*KRTVKEV*S AHNEAMCFGTCASDCLYR
3534	11585	A	4457	1	383	MVLMPVVSAIPEAEAKSSLIENDVCLSA KENHKSRAITRTAERFTE/SPHD/YPRK TARTGLRHAQQASL/PNWSTPLAARIAP VPPAANPQGVLLKSAGPHLLLLARTTTC NR*VPIASPQTTHRME
3535	11586	A	4458	1	1509	
3536	11587	A	4459	579	919	PGSM/IPLSVSHSTGDDGRSLPKRRSTAPS MTSVYCFNCERCLVSCSLLLLSSLGPPCL AVLLAPFFAPFF*VFLLCVVVAGLPALLL LLVSSLLFLVLLSFCAASACFGFLSV

3537	11588	A	446	1	459	HRRPLYPAGIARMTRGDRTRTGCTRPKG SRTGGAVGAAMQEIIIGSVDHKFDLEIAV EQQLGAQPLPFPMD/KTPDSQAPISTVW GLLLPSLGLRSSLPRIFGPLRLFKESGA CEFFLKAACGKGGMCPFRHISGEKTVVC KHCLRGLCMN
3538	11589	A	4460	1477	1691	YCNVSFGANLERA*TSFSALFIDLQPPGY RTTTSKHKVSSSLIKGHVLLDHSFHDNT QLWISTNAFRFGN
3539	11590	A	4461	1076	1354	QQKCAVNLHSFLPITKLRLFASCRAAR CCSHLTSQPVTA*LAGKVNPLPLGNLWE CDTKAGSQAMRTHLSITWRAVMQLPVI NTTYQRGKR
3540	11591	A	4462	880	1242	
3541	11592	A	4463	832	1386	
3542	11593	A	4464	46	492	HPVTLDNTYRTHIKQLIKGEVLFLHFTP DAVDVFRIT/MTLPL*RLQLSSQRADDQ RTLRCVVRGRDAVHAAVWQFVCIRLD VTEAVIFQFPFQLSDSETVSQRCVDVGT FCRQYTFIFRRIFYFAQMSNTLRLFD DYAEEIIDHRQ
3543	11594	A	4465	7259	7441	IASPGWS*ROECSSRSCAQCCQSTTT CRHAKQRSLALAHKPLAKLAGNGITPR LRQICR
3544	11595	A	4466	538	1056	
3545	11596	A	4467	1	1134	
3546	11597	A	4468	745	1263	
3547	11598	A	4469	3506	3826	EVWRPARRSRDVSCSRSHAYVVP GTADWLWPS*RPSTTGVC*PVTWRW LEGQWTPHLGRVLQEDSDSPTFPSAL GIQETREP PLKSPREVPTSGRTGVFHYVA
3548	11599	A	447	1	811	DGTMEDSEAVQMATALIEQRLAQEEN EKLRGDARQKLPMDLLVLEDEKHHGAQ SAALQKVKGQERVRKTSLDLREIIVG GIONLIELRKKRKQKKRDLAASHEPPP EPEEITGPVDEETFLKAAVEGKMKVIE KFLADGGSADTCDFRRTALHRASLEGH MEILEKLLDNGATVDFQDRLDCTAMH WACRGGHLEVVKLLQSHGADTNVRDK LLSTPLHGAVRTGQVEIGEHLGLSGL ENNARNREGDTALHDAGRNVNRYPI LQ
3549	11600	A	4470	1	751	
3550	11601	A	4471	482	1200	VFSGPFGVGFFPFGSLCPCELS ATVLEVAPPLPGNRMSSRITMLSESC QRMVIVGYGRCFADRQNL MVCLRSMPNVFTGSCARMRCC LSENL/PVPPSKRAHTGRVAVKE SNQRWCSDGFEFCCDNGERLRV TFALDCCDREALHWAVTTGGF NSETVQDVMLGAVERRFGNDLP SSPVEWREGVFNIDE EFGNESAQTGMLHHQLDPSVE GELHQTGSTACCRADSTHISH WRFM
3551	11602	A	4472	1271	1681	TVITTGIGRPFSMESVFALNALQ NSMMFTPC*PRAGPTGGLGCT SFSDEPILDGWPPQSSQLMIR MCFSVYTMLSESCQGMVIVG YGRCFADRQNL MVCLRSMPNVFTGSCARMRCC LSENL LYRHRNGHIAEWP
3552	11603	A	4473	739	1257	
3553	11604	A	4474	1	2661	
3554	11605	A	4475	1	2370	
3555	11606	A	4476	421	972	
3556	11607	A	4477	766	1073	HRQLVIVFQQPLVSGFHEAELS LDDAKWVLHPPDAGFHVFDV DGRFVLA*CCFKVLTLPGRS AISQSTPPRAPRAVAPLGS RHRLRQIAPLHAADYPAD

3557	11608	A	4478	1662	2045	PTALAAFSRRIVRITFLPVGDPGFHQSGS LRLS/NPDALQIQPACRIFSSALITSVFACS VHEGE*LPVDPGIIIRALLHR*R*KAESAC AVPCI*AWTDREYGCNRRKSGVILRRT DDWMDGRRSRHT
3558	11609	A	4479	1	1803	
3559	11610	A	448	100	1532	EARRNWGAMGKARRSPPGHHRHCEGCF NRHCHIPVEPNTSCLVISCHLLCGATFHM CKEAHQLLCPLEQVPCLNSEYGCPLSM YRHKLAKHLQACPASVVCCSMEWNRW PNVDSETTLHENIMKETPSEECCLDTALAL QDQKVLFRSLKMVELFPETREATEEEPT MNGETSVEEMGGA VGGVDIGLVPHGLS ATNGEMAELSQEEREVLAKTKEGMDLV KFGQWENIFSKHAASALTNSSASCESK NKNDSEKEQISSGHNMVEGEGAPKKKEP QENQKQQDVRTAMETTGLAPWQDGV ERLKTAVDAKDYNMYLVHNGRMLIHF GQMPACTPKERDFVYGKLEAEVKTV YTFKVPVSYCGKRARLGAMLSCKPSE HKAVDTSDLGITVEDLPKSDIKTTLQCA LERELKGHVISESRSIDGLFMDFATQTYN FEPEQISSGTELADLTAATPGGLHVELHS ECVTKRHN
3560	11611	A	4484	875	1075	
3561	11612	A	4485	2097	2179	
3562	11613	A	4486	4274	5255	HTLFGDKLCTVATLRETYGEMADCCAK QEPERNECFLOHKDDNPPLPRLVRPEVD VMCTAFHDNGETFLKK*VIRCL*FKIKK HGVTP*ANTL*KLP*QKYFQH*DLEVLL* *FFKEVVFDTTKFYTAKNMIKDILKFET GYNLSQKFIDKFFNVFRRYVYVMVVID FVLVSNILPKFNHLCTHTHTHTLTLFST YLKNDRDKTIMCKLSLIG*LÆSLEFGGS GENVDYNYFCNIVCYRK/ADCFSLKFR YL YEIARRHPYFYAPELLFFAKRYKAAF TECCQAADKAACLLPKVLCRIEKKSL SNLILSILWLDLGTLSV
3563	11614	C	4487	102	230	MFLSCRSVXXXXXXXXXXXXXXXXXSP LSPLLFLFHTYMRA*
3564	11615	A	4488	2	567	
3565	11616	A	4489	125	522	
3566	11617	A	449	124	602	WATTPFQPKSNSKMAELFMECEEELEP WQKKVKEVEDDDDEPIFVGEISSKPAI SNILNRVNPSSYSRGLKNGALSRGITA KPTSQHYTNPTSNPVPASPIKFHPESRSS DSSVIVQPFSPVSVSKTIRPAQGSIGCCL SISTVPSYNSGLS
3567	11618	A	4490	195	473	
3568	11619	A	4491	1	966	
3569	11620	A	4492	1	960	
3570	11621	A	4493	1743	1935	

3571	11622	A	4494	1	1540	NSGGSGGGTSGSGSSSGQKMGQSQSG GHGPGGGKKDDEDKKKKYEPVPTRVG KKKKKTKGPDAAASKLPLVTPHTQCRLK LLKLERIKDYLLMEEEFIRNQEOMKPLEE KQEEERSKVDDLRTGTPMSVGTLEEIIDD NHAIVSTSVGSEHYVSILSFVDKDLLEPG CSVLLNHKVHAVIGVLMDDTDPLVTVM KVEKAPQETYADIGGLDNQIQEIKESVEL PLTHPEYYEEMGIKPPKGVILLVPPGTG KTFLPKAVANQTASATFLRVVGSELIQKY LGDGPKT/LSRELFRVSEELAPSLRFIDRI LPPLGHKRYDASNSIGVRRELQRTMLELE LLNPVGMGFDS*GRL*KLWATNRNRET DPALIRPRPAFDSKIEVPLHDEKTKKRIF QIHTSRMTLADDVPLDDLIHGLKIDLS GA*HSRAICTEAGLMGL*GERRMKVTN EDFKKSKENVLYKKQEGTPEGVVSLMN HGLSSGKWLGDIPSIPERDEVGGSCPEESL FPLIFY
3572	11623	A	4495	125	320	
3573	11624	A	4496	1376	1509	
3574	11625	A	4497	2120	2313	
3575	11626	A	4498	2	266	
3576	11627	A	4499	918	1475	
3577	11628	A	45	2	343	NLCQVFIPFLFHSLLYVFKTILKGLFQASF LGHLLLLPLSGTPGRPGGGGAGGSGRGD PPAAGASRTIPWPLLLQLSSSSSHFKA/P SKLSSHG*PRALGPPGPYHRPPSPGTT
3578	11629	A	450	1	368	ICRFNPYVFLAAKADQLQVRTTOLT/CKS CWLYHCINHSTLQTCNISTL/M/ILGHIPG LWILINLSEPWDATPVWHFVKLLTKLT HHACRASGNIFAIVSLVTLITSVMSSVA LHSSVQMAQ
3579	11630	A	4500	1	822	
3580	11631	A	4501	158	668	
3581	11632	B	4502	151	336	ANSDSMVGYVLGPFFLITLVGVVAVG GPAAHLLPMYSYDPAEELHEAEQELLS DMGDPKV*
3582	11633	A	4503	748	949	
3583	11634	A	4504	1139	1241	
3584	11635	A	4507	41	488	
3585	11636	C	4508	187	342	MICKNKNKVILLXXXXXXXXXXXXXXXXGG AXXXXXTTPRRRGKKQFFLPPKQ*
3586	11637	A	4509	1304	1434	
3587	11638	A	451	126	373	GRGTSKILMALQRTSLLLLLLTLLGLG LAYPSYGHVLYHRVVADNGHLEETLV MDRCLSVMLLRIISRDDCERLIGLA
3588	11639	A	4510	1	1383	
3589	11640	A	4511	1	674	
3590	11641	A	4512	19	249	
3591	11642	A	4513	1000	1174	
3592	11643	B	4514	60	378	NAVLEADFAKRGYKLPKVRKTGTIAG VYKDGIVLGADTRATEGMVVADKNCS KIHFISPNIYCCGAGTAADTDMITQLISS LAAMAVFEDKFRPDMEEEEAKNLX*
3593	11644	A	4515	1	437	DPRATEGMVVADKTCQKSTGRPELV AIRMLKQMLFRYQGYGAALVGGVDV TGP/HLYSIYPHGSTDIAAGIFNDLGSGSN IDLCVISKNKLDLFRPYTPNKKGTRLGR YRCEKGTTAVLTEKITPLEIEVLEETVQT MDTS
3594	11645	A	4516	1	1059	
3595	11646	A	4517	1115	1307	

3596	11647	A	4518	3	866	FLGKMAAVSVYAPPVGGFSFDNCRRNA VLEADFAKRGYKLP RPRTGTITAGVV YKDGIVLGADTRATEGMVVADKNCSKI HFISPNYCCGAGTAADTAMTITQLISSW LKLHSLSTGRVLP RVVTANRMLKQMLF RYQGYIGAALVLGGVDVTGPHLYSIYP HGSTEKVPYVTHGFLAPLAAMALFER* V*APDMEEEEAKNLVSEDSPQFPSPSW RIFNDLGSRKPNIDPLPSSARNKLGFSPP HTQLPNKKGTRLGWPRYRCEKGTTAV LTEKIPLWST
3597	11648	A	4519	4	181	
3598	11649	B	452	1	1812	MPSPSPLFFVATIHDCELETTETGSPD LQDVPLEKADATVFTDGSSFLEQGVRKA GAAVTTETDVLWAHALPANTSQAQKAE IALTQALRWGKDINVDTSRYAFATVHV HGAICQERRLLTSAEKAIKNKNPPSSKPN RSSSSLGNNLRPDGSMYMHRSKGVP SVNVNLTPESESLNLESSCVTKLSPEKEI YEMESLQWENMGKRINHHLQYNGLD NMECKGNLEGQEASQEGLYMCVKITCE EKATESHSTSSTFHRIIPTKEKLYKSPNS QDTGYSQHHTRTTFSKRQPKNCERFPVE GRPLTLPAQTSXGYSGSKPDVITLLEQK EPCVVARVDVTRRQCPAAPMVDSLIARV GVMARGNAITLPVCGRDVKFTLEVLRG DSVEKTSRVWSGNERDQELLTEDALDD LIPSFLTGTQQTAFGRRVSGVIEIADGSR RRKAAALTESDYRVLVGELDDDEQMAAL SRLGNDYRPTSAYERGQRYASRLQNEFA GNISALADADNISRKNITRCINTAKLPKS VVALFSPHGDYLPVPQAKGNNVVITSY MTNRGFFEDKKATFAPSFLMNIKGNKTS VVKNSILEQGQLTVN*
3599	11650	A	453	305	1088	NHWPMLHVTFRDVAIDFSQKEWECLDT TQRKLSRDVMLENNYNNLGLTG/SDILGS KPVVITLLEQGKEPCVVARVDVTRQCPG LLSRHKTKKLSSEKDIHEISLSKESIEKSK TLRLKGSIFRNEWQNKSEFEGQQGLKER SISQKKISLKKMSADRKRPSFTLNQRIHN SEKSCDSHLVQHGKIDSDVKHDCKECGS TFNNVYQLTLHQIHTGEKSCKCEKCGK VFHSYQLTLHQRFHTGEKPYECQECGK TFTLYP
3600	11651	A	4538	1511	1687	
3601	11652	A	4539	425	619	
3602	11653	A	454	1	2088	
3603	11654	A	4540	122	621	
3604	11655	A	4541	2315	2790	AATTPALRPLRRSSFLMATTITKASTGT WSSSPSLPTPPTSTLRKAPTTLIQKWRP GAQQPSCPKPRS*PSSSTPRTGPIGTSTS EPMITTQWP*STPSMR*LPPALTHPRSCVP SRTAAWVLGWYATHIERWLSAYSQRPD SGLGWQTCFAQNLPK
3605	11656	A	4542	645	766	
3606	11657	A	4543	294	502	
3607	11658	A	4544	969	1158	
3608	11659	A	4545	147	402	GRGIQLFHEIQLQLSKTLCEPAVPVQRLR GRTAARWPGSRESPLRPVDFVEYCGVLI FIILFI*WRHFHSLCWSGDDIILACLL
3609	11660	A	4546	240	433	
3610	11661	A	4547	3	310	GGQPPHPAARPGGRWGCQPPARQPLRP GGSVSTGTGFPGRWQPETSWVSCRHC GPHLSAVWGLPR/LSPLPAGPNRPQQLS EFPRPKEFLTPTQKTKPN
3611	11662	A	4548	3	195	WPPGPLQPRGTEHRPPTDTPRAARSTR SHSPSEPRTRTPWQQR*LPRPSKPSHGP VIEAA

3612	11663	A	4549	1	1439	
3613	11664	A	455	140	511	PTQSTRRIATVSIAAAVAPLTLFLYRGDG GLSSRRRADAAGG/APFSLCGEVAVKPP NPFTELMENA VNDGSHSEELFCHLKTIS QKEDLTRCTSESHLSWYSHQYQGKSKF PILGFPVLSII
3614	11665	A	4550	292	573	
3615	11666	A	4551	376	456	GEEPTSVF*RNQWNLRPHKHFGNASPW
3616	11667	A	4552	1663	1984	
3617	11668	A	4553	1735	1868	
3618	11669	A	4554	138	279	
3619	11670	A	4555	72	192	
3620	11671	A	4556	571	690	CQQGFSFLQAYGPAQHAISMRKFKAKY PDYEVTWANDGY
3621	11672	A	4557	130	943	
3622	11673	A	4558	45	405	GIPGRRNMAVADLDLIPDVADSDGVFK YVLIPSPLGIPAPGIRPAESKEIVRGYKWA IGHHADIYDKSVGATCRKQGLRTVSILG GGRIS/HTKSPGQERFTVYGYSMGLWSC PRTPIST
3623	11674	A	4559	613	866	
3624	11675	A	456	1	1014	
3625	11676	A	4560	69	430	
3626	11677	A	4561	144	294	
3627	11678	A	4562	13	759	
3628	11679	A	4563	177	328	INAHLKFKVYFLSQAPLKCTWKTSAARE NHV*LTFLMFYGTGLGTGVCFL
3629	11680	A	4564	218	343	
3630	11681	A	4565	708	916	
3631	11682	A	4566	829	1002	
3632	11683	A	4567	51	209	
3633	11684	A	4568	8	218	
3634	11685	A	4569	3	357	
3635	11686	A	457	577	2195	IMGCVQCKDKEATKLTEERDGS LNQSSG YRYGTDPTPQHYPFSGVTSIPNYYNFHA AGGQGLTVFGGVNSSHTGTLRTRGGT GVTLFVALYDYEARTEDDLSFHKGKFKQ ILNSSEG DWWEARSLTTGETGYIPS NYV APVDSIQAE EWYFGKLGRKDAERQLLSF GNPRGTFLIRESETTKGAYSLIRDWDD MKGDHVKHYKIRKLDNGGYITTRAQF ETLQQLVQHYSERAAAGLCCRLVVPCHK GMPRLTDL SVKTKDVWEIPRESLQIKR LGNGQFGEVWNGTWNMGNTKVAIKTLK PGTMSPEFLEEAQIMKKLKHDKLVQLY AVVSEAPIYIVTEYMNKGSLLDFLKDGE GRALKLPNLVDMAAQAAGMAYIERM NYIHRDLRSANILVGNGLICKIADFGLAR LIEDNEYTAROGAKFPIKWTAPERALYG RFTIKSDVWSFGILLTELVTGRVPYPG MNNREVLEQVERGYRMPQDCPISLHE LMIHCWKKDPEERPTFEYLQSFLEDYFT ATEPQQYQGENL
3636	11687	A	4570	2	217	ECGDVCDTGDRASVDEEGYIWLGRSH HTINAS/GVVKALIVLTPQLSHDKDQLI KELQQHVKSVTAPCIGC
3637	11688	A	4571	1	846	
3638	11689	A	4572	361	916	
3639	11690	A	4573	128	416	RQVLLFWGRGKYHNPFSCLYPFSAFLG EGQVPLNPFSTLSGKSRFSRQEP/LNPL FPHPDLLSVCNPLFPHPDPFPAFLEGKN PRTPRTRGST
3640	11691	A	4574	127	135	NKIVLKCWGGENFWGVVWRENGRCFS GLLQAGLGAAWEPRVG/IVRRNICCIE*L VMAWIRFCMN*KTK

3641	11692	A	4575	35	386	QLKTDTAQSPRPLDHHGHRASGNHSHG SIHPDGLK*LKNHHRSEKPCPTLTDDIPP QKKCKWPVLALSADITL*KSFSWLILAQ KAPPLSTL*PPLLPAEQMSFDCNFPPLPT QIL
3642	11693	A	4576	148	336	IRTPKIGLFNSPGSHSQSPWNSGPRLSD/ WTPSQIFSA*QLKTDAAAGSPRKPPRPSRT PSFR
3643	11694	A	4577	4418	5130	DTISYQLEWRSLSQSQETTDQAPMSSL*NF LRNPWLS*RLGA*/WNADEQGVPLIQE MLESWASICKVPKYPNAAEAVRPEEQTPH LHPGEINSHVAHTKL VWWSLHTDTHEI WCRSDRGTSLSGRSIPCPPALCSVRKIHL RPQVLRPTSPRNISPISNPHTRT/SQTPEPQ RPGVPPEPPSPGACYKCKQSDHQAKECL QPRIPPKPCPICAGPHWKLDCAHLAATL RAPGTLAQGSL
3644	11695	A	4578	522	923	PSAAGLLEFAGGPLQTLFAWVSAEAAE QRVLLNSQ/WLLPDRSSGSFVSGSIWPCE VSVCPSSRCWRPRRKPLEAHLVQPQPPT LLAPVLVLLAVCYGWSRPLAHTLFAAS RLAHGVDQRQNNLVDKAQILN
3645	11696	A	4579	1	569	MGKKQNRKTGNSKKQSTSPPPKERSSSP ATEKSWMENDFDELREEGFRRSNYSEL EDIQTKGKEVENFERNLEECITRITNTEK CLKELMELKTKARELCEECRLRS/LMRS TGRLLIKKTPFSSG*SRI*FNN*ASNSLY* NINSNKSLP*PLKGPILSKPSASNPICISLQ WVQAFQKSESLPAPR
3646	11697	A	458	561	966	GALCAASVPRCVWSSAGVVALFEEHCA PLVWVYTYECCHYMCSALLSLSCPCPAP SERAAGLCCRLVVPCHKIGMPRLTDLV KTKDVWEIPRESLQLIKRLGNGQFGEVW MGMLRLNYSLSIFPVWKIPNTKDGR
3647	11698	A	4580	23	660	FIDSMPSPSRYQ*LSSQNWKLL*SSYGT KEEPASPSQS*AKRTKLEASHYLTSNYTT RLQ*LFQKHTMLSPRENLTQPACTQVK* TAMLLTQ/RPVWWSLHTDAHEIWCCDS DRGTSLSGRSIPRALCSVRKIHLRPQVL RPTSPMNISPILNQLSSLRLTLPDLRLSPL DHHGRRASARLHPGEINSHVAHTKPVW CSLHTDTHENDKNKQ
3648	11699	A	4581	1	764	MIQEHADKQVQRLQGVLLGSIPTAASRA RLHPGEINNHVAHTEPVWWSLHMDAYE IWCRCSDRRSTLSGRSIPPLALCSLRIHL RPQVLRSTSPRNISPISNPGHLSDYTPTFQ GCQTMQGRLPWSFTLSGKSRSFSGEGATQ ROYPIPPQALKGLMPAITRL/STAWPFKA YKLSLPFPHTCPKTRQALQVSSGSAPYQ PNCFAYPFHGAKPIYSSILNTCLYNPLFCS RSQTSFLYYSFAPFIPASLRIHLD
3649	11700	A	4582	1	400	MWNAVTLWQQRESCIEEIESEIGTLETKE THFIRGPKTLAPVTDWEG/SPSLGV*SMQ GRLSDYTPTFQGFQTTQGRLPWSFTLSS KSCFS/AGRGKLLARPS*VPILPQPLLLH PTILLSPPLTPGQAYSFIP
3650	11701	B	4583	1	933	MEEKEERKRRRKRKRREGRDGERKR MEKQKENQDPKDPPTTSGPQTDQPKKH LTNFKSETKETRFIRGPKTPAPVTDWEGS LPLVFNHSRDTSLIHPGFRGVRPRRDAC LGPSPLAASPTFLGKGPAAPRQTELGPNS SSASAPPPYNPFIASPPHTWSGLQFPSMT SPPPPAQQFTLKKVAGAKGIVKDLINLTF KVYNNRKKLQFLASTVRQTPATSPAHK NFQTPELQPGVPPPEPPRGACYKFQKS GHRAKECLQPRIPKPHPCVGPVHWKSD CPTHLAATPRAPGTLAQGSLTPSQIFLA*
3651	11702	A	4584	1	582	

3652	11703	A	4585	1	622	MAKSFSGSGKSVCKSPKGKNNWTETRM IGDGGQLQEGSLTMKFEDGKYLFGFNIEG DFCEDSNFQTGESVSDVYFENVLSALQRE STGSGIAQERNDEGLESGRAVLCIEECLS ASLASTSQSSIEQPLPTSSPTKTKQNMTP DIAEYPQWAIWTSKTTTIVLRPS*VLILP QPPLLHPIIFLSPLLTPAPAYSFIPPSQTPS FG
3653	11704	B	4586	102	1151	MEEHFMLMGSKNOYRENGHTAQEKLL YAFHNISLKQSSSLSLSQNFNNENNDGS KDDDDGGDDDDDCQASEAKPNSACLHP GEINSHVAHTKPVWWSLHTDTHENDNG DVGDDNVDDDDVDDGGDDGKDDGDD DDGDTVMMVMMIMMMVLMVVMIVVV VVVVVVVASRKAFLFLINGEESELESHLT GFANIPNHHLTVQHIYTPILPSGETKETR FICGPKTPALVTDWEGSLPLVFNPCRDS LIQPRFKAASPAILGEGQVPLNPFSTLS GKSRSFSGEGARAYYKCRKSDHQAKECP QPRIPPKLCPICAGPHWKSDCSTHLAAAP RTPGTLAQGSLTDSFLA*
3654	11705	A	4587	258	479	TAAARRSSRTSSHRSLHVPEIWPLGQG MPAARDSS*AASHLCRTPPKIGLFLNPGS HSQSPWKSQPRLS*LLPRSSRLSS*RAL GOISRGSGSGCQVS
3655	11706	C	4588	259	531	MSPAHNKFNQTPEPQRPPIPPEPPPGACY KCQKSGHQAKECLQPRIPPKRPICAGPH WKLDCPHTLASTPRAPGTLAGQSLTASQ IFLA*
3656	11707	A	4589	1	446	MNLNRNALVLTLSFDSARLHPGEINSHV AHTKPVWWSLHMDTHEIWCRSDRGTS LGRSIPCTPV/VLSRFKKIKACYHSPATS WPFKTYKLSLQLPHFTCPKTRQALQVSS GAVPYQPNCFAYPPCGAQPVPSFVLNTF LHNSLCRA
3657	11708	A	459	46	949	ARRPRPWLSSARTPRRPFWRPSCCSPM LTTSETLMMKNIDPSGLETQPF/YEVLQ SNIQHVLVYENPALQEKALACIPVQELK RKSQEKLSRARKLDKGINISDEDFLLLEL LHWFKEEFFHWVNNVLCCKGGQTRSR DRSLLPSDDELKWGAKEVEDHYCDACQ FSNRFPYNNPEKLLLETRCGPWCE
3658	11709	C	4590	228	260	MFLGLVGLRT*
3659	11710	A	4591	268	390	
3660	11711	A	4592	1	499	MAPTNCKGSRKCGRPHEQMHPYPLPL TLFSDSARLHPGEINSRVPHTKPVWWSL HTDAYEIWYHSDWGDLPWETIPCPA LCSMRKIHLRPQVLRPTSPRNISPISNPEK *NGLKVF*KHTSPSSATNLKRPQGYFYH FPFSEFRPVLGMLQVTSFQKFTLL
3661	11712	A	4593	1	355	MEVYTQKAYWRVPLGSTVGDQGGHGR FIHPFAIKIEQGSTNRCPSPGSPATKYVLLC LHGEKVDLLPADQQSIFSPGRSTQGHLSI TGVLMNRHSTYMDKEKVKMVTALWTD EELSKLTWTRMKFDAMTQLGDLPWEIN PLSSCSLLREKDPPTTSGPQTDQPKHELT NFKSTTNHAPLTIPLKPNHSYPAECQYPV PQHALKGLKSIITRLLQHGLLKPINCYN SPILPVLKPDKAYRLLQDLRLINQIVLSIH PVLKPNLTLSSIPPSTTHYSVLDLKHAF TIPLHLSSQPLFAFTWTDPDTHQAQQITW AVLPQGFTDSPHYFNQAQISSSVTYLGH LMKTHVLSLLIVSG*ESIWFVQHGVDQR NNLVDKAQILK
3662	11713	A	4594	260	487	AQACMYTSRWPEATEEPQKK*KWLVPA LTDDITL*HSFSGTVSLRSSPLSTL*PPPLP AREQPPLTVIFHHLPKS

3663	11714	A	4595	1	508	MNMNIKKIVKQATVLTFTTALLAGGAT QAFKENNQKAYKETYGVSHTRHDM QIPKQQQNEKYQVPQFDQSTIKNIESAKG LDVWDSWPLQADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKTA/PSPGQ A/TVPILPQPPLLHPILLSPPLLTSPAYSF VP
3664	11715	A	4596	1	1246	MKGGRSLWLLPADGGSSNGNELQGT SPHDYFSIAIKSTHIGLEYPTSRQSNRVSP QSKRIRQPLGLPSGITERGPPNNRQKGY TRQQFCHESPTNKGDRVIYNLTCLLYCC VRFLAGTGPHILYLSRLASNLELFKRDK GRGEQRKEEVTCFHKLLAEKENNPPFSFI YPNPIKRPHYPYLPSTLTFSDSAHLHPGEIN SFMAHTKPVWWSLHTDAHEIWCRSDR GTSLSILRPPALCSMRKIHLRPQVLRLLI SPRNISPISNPHALKGLKPVITRLLQHGLL KPINSYPNSPILPVLPKDPKYKLVDLCLI NQIVLPIHPMMPNPYTLLSSIPP/CHNPLF CSGSQTCFLYYSFVPVIPASLRFHLD*P*H SS/WFSKLPGLYCRKASQTAPITSVKPKF HPHLLPISA
3665	11716	A	4597	182	750	KWPYCPSSAGQQTQLCSSSTNSNCLPY RGTSLSRIPCPPALCSMRK/MPPTTSGP QTDQPKKHLTISNPVAEAKGIVKVNAPF SLSD\PPKIS*RLGSFSSNHPYLQGRQYPI QQALKGLKPVITCLLQHVLLKPVNSPYN SPILPVQKLDMPYRLVQDLCLINQIVLPI HAMVNPETFIPLTVLNP
3666	11717	A	4598	3	504	KRPHYPYLPSTLTFSDSAHLHPGEINNHVA HTRPVWWSLHTDVHEIWCRSDQGTFF WEINPPSSCSLLREKDPPTSGPQTDQTK KHLTNFKSGKRPLFTPSPTSLTIPQPLSPF NLGATLQSLPSLNFSNFHFLVFTKETCFI HEPKTPAPVTDWEGSLPLVFNHC
3667	11718	A	4599	1	1032	
3668	11719	A	46	105	328	RDLHMKTTISKVY*LTIVH*SGSVGRDYE LHENPLVGPNIKLGFVDISHPNDEYSPL LLQVKSLLKEDLQKETIS
3669	11720	A	460	3	284	
3670	11721	A	4600	72	724	FQIAGKWHFQFFHPTRSK*FLS*N*QMV* GA*CPGILLHISPFVSVPSATRPKSSFFPS HLSPPQYQPVLSLSNLPLQTHVTS AFL PRLLARPS*VPS/RSSASA/LSTLQSLYHL PSSHLVRLTVSFRDYPSTCPAIYS*KGG WSQRHSQG*CSF/SLYPKSDSV*ALFHQI* KSSPVHGSFGSNPKTLYSPSP*KVKRPSY SQYTFYYPICSRH
3671	11722	A	4601	2009	3197	
3672	11723	A	4602	3948	5007	VLQTFVSVTAHKGGTTPRVCCSSQWVR GLADFRNEAADPHDQGMENPTDFLER LRGALVKHMSLSPDLVEGQLILKDKFIT QAAPDIERKLQKQNGPSLRDIFFSPQNGY NWRMASFYLPVANKWKILKSLYQILHL GPDWEGPYTVFLSTPMAVEVTGIDSWIH YTQVKAWKADGATSVNPEEHPKYQGEI NSHVAHRKPVWWSLHTDVNEIWCRSD RGTSLGKS/HPRSSCVLCSVRKIHLRPQV LRPTSPRNISPILNQELATRA/VKSGH*AK ECLQPGIPIKPHLICVGP*KSDCS/TSPGS HSQSPWNSGPRLSD/WTSPQIFSA*RLKT DTARSPQKPPRPSRMPFSR
3673	11724	A	4603	567	678	
3674	11725	A	4604	1	305	
3675	11726	A	4605	3474	3657	
3676	11727	A	4606	796	937	
3677	11728	A	4609	664	1059	
3678	11729	A	461	420	690	

3679	11730	A	4610	775	944	
3680	11731	A	4611	279	416	
3681	11732	A	4612	36	4704	
3682	11733	A	4613	124	672	
3683	11734	A	4614	688	940	
3684	11735	A	4615	561	663	
3685	11736	A	4616	217	378	
3686	11737	A	4618	198	347	
3687	11738	A	4619	201	424	
3688	11739	A	462	557	753	IIIEIGIMEQRKPWKKICYFICCASHAKGSL /CRRMKRAPVYYGRTVPSPDGSIHGEY HVLLELNTE
3689	11740	A	4621	305	440	
3690	11741	A	4622	936	1380	
3691	11742	A	4623	9	1230	
3692	11743	A	4625	942	1293	
3693	11744	A	4626	40	154	RCWLCPHALFLWLASHLCHFYTFCVQ AEC*VMPPHPL
3694	11745	A	4627	4	436	
3695	11746	A	4628	465	748	
3696	11747	A	4629	92	393	WPRSGPLRLLRTVCCCVLPLLSHSKLHKI SVSAPGP**QIPPPFQNRFSFCDTERG*GG ETPLVPGKFSSPHQTLL*GTSSGRTGSAG QLPLLYLSYKTR
3697	11748	C	463	137	274	MRKQLLLPQKKRRVYLLRITKKVEMIPQ DNENPGNTNCHDVVLVQ*
3698	11749	A	4630	1	1614	
3699	11750	A	4631	1	410	KGKVKEAAQRYQYALKKFPREGFGEDL KTFRELKVSLLNLNLSRCRRKMNNSSSC VHILSSRQFAAAEDLNEAIKLCNNREI QRLLLRVEEECRMQQPQQPPPPPPQPPQ QLPEEAPEP*RT*TRPSSCVPTTVRSRDF C*EWKKSVD/TMQQPQQPPPPPPQPPQQL PEEAPEPQHEDIYSVQDIFEE
3700	11751	A	4632	1	972	
3701	11752	A	4633	196	390	
3702	11753	A	4634	2	4417	
3703	11754	A	4635	158	358	
3704	11755	A	4636	4	152	
3705	11756	A	4637	382	458	
3706	11757	A	4638	46	314	
3707	11758	A	4639	46	271	
3708	11759	A	464	1	2155	MKKKKMKEEEEKEKEEEEEEEEERR KEEDDFCNRTSPAGGSEGPQGESEQPAQ PPEQAGGRPGASPAPDEDAEAAGAEQG GDSTEATAKPKRSFYAARDLYKYRHQY PWKLSQFHSSVSHRRKEIDCKAFKWQDL AFFGELTRGKRSQHNYLRITRILKSLGEL GYESFKSPLVKFILHEALVENTIPNIKQSA LEYFVYTIRDRRERRKLLRFAQKHYP ENFIWGPPRKEQSEGSKAQKMSSPLASS HNSQTSMHKKAKDSKNSSSAVHLNSKT AEDKKVAPKEPVEETDRPSPEPSNEAAK PRNTEKDSNAENMNSQPEKTVTTPTTEKK ESVSPENNEEGGNDNQDNENPGNTNCH DVVLPRSPAPAAASSMGNLLGGVSFREP TTVEDCDSTWQTDSEPEPEEPGPGGGSE GPGQGESEQPAQPPEQAGGRPGASPAPDE DAEAAGAEQGGDSTEATAKPKRSFYAA RDLYKYRHQYPQNFKDIRYQNDLSNLR YKNKIPFKPDGVYIEEVLSKWGDYEKL EHNHTYILWLPLTEQGLNFYAKELTTY EIDESSKTKEAIIHFPPWAYKNDARIFWN KT/GLIKLGMFARGVYWQESFQHLNESQ HNYLRITRILKSLGELGIESFKSPLVKFIL

						HEALVGGILFPILRQSAL/EYFVYTIRRTG RRKGRKA/LCGFAP/WKHYTAFQGNFIW GDPPSEKEQFGGGGQRPREM
3709	11760	A	4640	1	1815	
3710	11761	A	4641	1	1284	
3711	11762	A	4642	1	1650	
3712	11763	A	4643	1	1605	
3713	11764	A	4644	303	410	
3714	11765	A	4645	92	395	HHHSLTVTLSPFPCKPLPPMKAKLV EERKRNARG*SAKRRKMRQRSQVNPPSF VAPVEATQEHEWNAQTLGMLGTSCGT ACYCLELVSMGSRTSSAL
3715	11766	A	4646	362	497	
3716	11767	A	4647	609	701	
3717	11768	A	4648	1	104	TYV*PSVFKVN*HPT*SSS*HRKDQTDIL NAINQ
3718	11769	A	4649	1	1398	
3719	11770	A	465	226	486	NWTKKIITSMCLWGNASFGQLGLGGIDE EIVLEPRKSDFFINKRVRDVGCGLRHTVF VLDDGTVYTTCGCNDLGQLGHEKSRKKP EF
3720	11771	A	4650	1	1149	
3721	11772	A	4651	3	242	
3722	11773	A	4652	213	658	EGPARHRLSPVRASKMTKKRRNNGRA/ KKGRAPRQGTAPLKIFPSGPLPPNCARCV P/RRDKAIKKFRHSET*WEAAAVRDLSE ASVFDAYL/LPKL/YVKLHYCVSCAIHK QK*SGNRSS*SPAKTRTPPPRFRPAGCW PHGPPTKSP
3723	11774	A	4653	161	295	
3724	11775	A	4655	355	476	
3725	11776	A	4656	662	979	
3726	11777	A	4657	960	1387	
3727	11778	A	4658	696	996	
3728	11779	A	4659	240	461	
3729	11780	A	466	674	1026	LWAEGLVWGSIREWLQHTPPNGIRDW AKQRMWRTGQPAPTRVNISRPSPTPF PRFTTKLMWALGTDPFTHTHSHSFAH IHSCTHA/HVQEHTYTYSLPHTSRPFLKG SKSTPKP
3730	11781	A	4660	2939	3295	
3731	11782	A	4661	44	319	
3732	11783	A	4662	2	896	
3733	11784	A	4663	68	438	
3734	11785	C	4664	208	345	MSPDRNIECKATGFTETTIYDLLFCKSV SFYQLLISSSGSKSIT*

3735	11786	A	4665	1	320	
3736	11787	B	4668	1	651	MQKEDCVIVLVKLAVEGMAPTQQIHLF VAITFSGWPRQCTGSSFKAIDFLDPDSV MQQIYSFHFGIMCNFDNHAFQNLMAVID NIKQDRDMDEAGSHHSQQTNTGTGNQT PHVLTHKWELSNENTWTQGGEHHTPGP WVLGLADFKNEVVDPHGVKPQTFTVSV TALKDDVSGIHSFLLVGSWSANFRNEAA EPSALFTIAKIWINLSIHQQMNG*
3737	11788	A	4669	1	112	
3738	11789	A	467	153	380	PRSWGQDTPSRGERSPNSSGTPGLPPPG GHPFSPQVVRPQLLPPTDLGPGGGQAG IQGVPSCSPTQDGANSRL
3739	11790	A	4670	474	616	
3740	11791	A	4671	197	334	
3741	11792	B	4672	82	402	MGLEKLHPFDAGKWGKVINFLKEEKLLS DSMLVEAREASEEDLLVVHTRRYLNELK RKVLRPLRTQTGGTIMAGKLAVERGWAI NVEAIXRKVELEWGTEDEYLDK*
3742	11793	A	4673	1	1524	
3743	11794	A	4674	39	786	
3744	11795	A	4675	434	1333	
3745	11796	A	4676	772	1107	
3746	11797	A	4677	282	377	
3747	11798	A	4678	233	459	
3748	11799	A	4679	761	962	
3749	11800	A	468	140	754	TAMSSEEGKLFVGGNLNFTDEQALEDH HFSSFGPISEVVVKDRGTSSGPGGFGFI TFTNPEACFKLPMKKPMNRRSLEWSVR SRCWIMQAKSASGEPEGGLGAHWGL GSQLTFKKVVGPGGLIGELSFAMRAMN GESLDGRQIRVDHAGKSARGTRGGGFG AHGRGRSYSRGGGDQGYGSGRYYDSR PRGYRYRYGRSRD
3750	11801	A	4680	3	190	
3751	11802	A	4681	150	338	
3752	11803	A	4682	168	375	
3753	11804	C	4683	55	444	
3754	11805	A	4684	64	322	
3755	11806	A	4685	2	38	
3756	11807	A	4686	185	451	SQHFRPRQVDHLRLGVGDQLDQHGET PSLLKIQNWPGVVAHACNPSYSGG*GRR I/RLTLGGGGCGELRSCHCTPALATRAKL RLKKKK
3757	11808	A	4687	344	468	
3758	11809	A	4688	204	286	
3759	11810	A	4689	206	395	TFCLVFFQFSYNFQLVPVFNTALVC*RH* LIAFLNLRII*F*YKYISYIFVKL*QNQISKP WF
3760	11811	A	469	2	259	GGNDLAFPH/HENEIAQCEVFHQCEQWG NYFLHSGHLHAKGKEEKMSKSLKNYITI KPSTTVTAPCSKLSSCSWGVALSWRTH VPT
3761	11812	A	4690	2112	2221	
3762	11813	A	4691	116	382	
3763	11814	A	4692	11	666	
3764	11815	A	4693	47	241	
3765	11816	A	4694	246	485	
3766	11817	A	4697	3	728	
3767	11818	A	4698	825	941	
3768	11819	A	47	1478	1732	GGQGRWITRSVQDPHGQDGEKPSLLKI QKLARHGGRRRL*SQLLGRL/RQENCLNL GGGGCSEPRSHPCTPAWVTEQDSVSKK KKK

3769	11820	A	470	198	353	
3770	11821	A	4700	1	299	MALRKNEVFEGWDGRKGVSHGEGCFSK GSNIGAYLGKSQEQFEGNIRGNRQIIVNN ESKLIKISEEDLTTPMRQRSNTLPKSFGSQ LEKEDEKKQELVDKAIKPSVEATLESIQR KLQEKRAESSRPEDIKDMTKDQIANEKV ALQKALLYYESIHGRPVTKNERQVMKPL YDRYRLVKQLSRANTIPIVSRIPSRGWY NTFP*CPQGGCFPLASPGASSE
3771	11822	A	4701	1	238	
3772	11823	A	4702	1082	1436	
3773	11824	A	4703	126	417	
3774	11825	A	4704	867	961	
3775	11826	A	4705	3	242	
3776	11827	A	471	103	483	NTAVSTTVAGSCLASESAGAPLPSALSV GLGVPAPWNKGRSCLPGRPSTGEDLGA DFIPNPTLGLYIGWVQVPIRFLGSHVSLR PESLLTQLRLNAFVFSGHLHAKGKEEK MSKSLKNYITIKKK
3777	11828	A	4710	244	318	
3778	11829	A	4711	1	1605	
3779	11830	A	4712	1	816	
3780	11831	A	4713	395	1374	KVTLMRWLYKG*NSGPMSV/TEEMDLAI EASEMIVLQSLHKYQPRHIVEVNDGEP EAACNASNTHIFTFOETQFIAGTAYLNAE ITQLKIDNNPFAKGFRENFESMYTSVDTS IPSPGPNCQFLGGDHYSPLLPNQYPVPS RFYFDLPQAKDVGSSRVNREVSKDF ADFGTTIKQDFRLLGQTSVDRLLQLSQG QAVKGNQLLPVSLVKRKTTLAPNTQTAS PRALADSLMQLARQVSRLESGQDFADF GTTIKQDFRLLGQTSVDRLLQLSQGQAV KGNQLLPVSLVKRKTTLAPNTQTASPR LADSLMQLARQVSRLESGQ
3781	11832	A	4714	1	2109	
3782	11833	A	4715	251	623	
3783	11834	A	4716	36	69	
3784	11835	A	4717	328	441	
3785	11836	A	4719	560	688	
3786	11837	A	472	98	1339	GLRAAQAWAPRCRPRWALGGLGGTGL RSLASGGRRAWLQPTGRETGVQVYN SLTGRKEPLIVAHAEASWYSCGPTVYD HAHLGHACSYVRFDIIRILTKVFGCSIV MVMGITDVDDKIKRANEMNISPASLAS LYEEDFKQDMAALKVLPPTVYLRVTENI PHIISFIERIARGNAYSTAKGNVYFDLKS TGDYKGLVGEVPGVPGEPADSDKRHA SDFALWKAAPQEVFWASPWGPGRPG WHIECSCLASNGIWKNLDIHSGGIDLA FPHHENEIAQCEVFHQCEQWGNVFLHSG HLHAKGKEEKMSKSLKNYITIKDFLKT SPDVFRFFCLRSSYRSIDYSDSAMLQV SSCSWGLGSFLEDARALHGRGAAGLRL RQGS DAVGEALQH QEGREGGLGR
3787	11838	A	4720	245	382	
3788	11839	A	4721	235	425	
3789	11840	A	4722	253	363	
3790	11841	A	4723	235	320	
3791	11842	A	4724	1	1326	
3792	11843	A	4725	2	1502	

3793	11844	B	4726	144	2704	XHGSVVVWDLREDSRLHYSVTLSDFW TFRTATFSTDGILTSVNHRSPQAVEPIST SVHKKQSFVLSPFSTQEEMSGLSFHIALS DESGVLNVWVVVELPKADIAGSISDLGL MPGGRVKLWDSSTDSHAVTGLQWSPTR PAVFLVQDDTSNIYIWDLLQSDLGPAK QQVSPNRLVAMAAVGEPEKAGGSFLAL VLARASGSIDIQHLKRRWAAPEVHSCVE RKWSGHTASRVHTHSPSLLLFCNPLDD WSRSFETEAPKHVVFEPYRNVKFVKK ETSKKANDLPLSLTPREELARCLWAPPSP SVEGPMATAEVPWNESSHSSKGRREGPE PHRRRSSAEQEVQAARLQGERKARGE HGSRKGRENGAKQDKPRQAPTVSVFR QSPSPRESAHSSGTRFQLGCSHTELTGG HLASLCDYLLQTPRPGVPEHRASPGSKC TRHSHSHTLGRGEGVCTCPSATDTPQV VERESNPLDEVRRGHAGEHRLLSQSLST VGAESISSKSTGWAPLNAPVRTFLGESLG SAFSSASIALRTSVKRRHKWARPHNTGA RQPPGGKGTPPGGKEHPYEIKAPPCVSR WLSSPPGTPSCTTVRRSWLPSALKHCC VLRREMAVCHRLSKCPANAIVKHPCEG KSPPYRALWHRSGVWTVAGTQRSPNIR AHRDQTLRNNYTILIPNGNWRHGAYAG VSSFSRX*
3794	11845	A	4727	8	3281	
3795	11846	A	4728	162	347	
3796	11847	A	4729	201	522	
3797	11848	A	473	414	833	NVLVICQRNSNSFKLKFVRDDGEQTQQ DFSALQ/AS/SQGRPELVHSGVQGPWG HQPWVCONPLAKAAFTALLVLESLREE ERTVTAEGAPLSPGGPHTSPSPGRDAGG SNLGTFSRSYSQRLEFLSSRKLCNINCKL S
3798	11849	A	4730	205	424	
3799	11850	A	4731	343	500	
3800	11851	A	4732	103	361	
3801	11852	A	4733	1097	1298	
3802	11853	A	4734	874	1184	
3803	11854	A	4735	451	641	
3804	11855	A	4736	1	1215	
3805	11856	A	4737	1	417	
3806	11857	A	4738	19	345	AATLGHCPSIQCWRSAGSCPRASSSGPQ ASPMWV*STDLR*MSWATSLQGWCPCQ WPPTPSCSQSSWAA/LHHRCGWVCHCH LTGEDLRPEARLPGGQQPGAGGPGPQ
3807	11858	A	4739	40	209	DGRCNSQWSRRLQGPRVWVHTEGPGPAS ARLPQPHPGPGCPLLCGHCVPEPEEYFP *LPQPHPGPGCPLLCGHCVPEPEEYFP
3808	11859	A	474	635	901	PHPEPKGPKLRAVPLSPDFPPGSRLAGSP GA\PPPPHPEDRLHQGSSHPHPIRLLER SLAQGGAAPLGPPRMPHGAAPQGCSPT PT
3809	11860	A	4740	2	4097	PCPPHADCRDLWQTFSCCQPGYYGPGC VDACLLNPCQNQGSCHLPAGAPHGYTC DCVGGYFGHHCEHRMDQQCPRGWWGS PTCGPCNCDVHKGFDPNCNKTNGQCHC KEFHYRPRGSDCLPCDCYPVGSTRSC APHSGQCPCPRGALGRQCNSCDSPPAEV TASGCRVLYDACPKSLRSGVWWPQTKF GVLATVPCPRGALGLRGAGAAVRLCDE AQGWLEPDLFNCTSPAFRELSLLDGL LNKTALDTM
3810	11861	A	4741	2	10321	
3811	11862	A	4742	157	273	

3812	11863	A	4743	469	676	
3813	11864	A	4744	237	497	
3814	11865	A	475	816	1099	HFGEPPFFLRQSL/NSVAQAGVKWRDPS SLQPLPPGFKRFSCPSLPSSWDYRRVPPH LANFCIF/MSRRGFIMLARLAQPQ/CDPPI SASQSARITGV
3815	11866	A	4750	303	1978	
3816	11867	A	4751	142	408	
3817	11868	A	4753	49	163	
3818	11869	A	4754	665	733	AQEP/LTWCLLPTLVPGKCEWRQV
3819	11870	A	4755	334	520	
3820	11871	A	4756	3	222	
3821	11872	A	4757	133	205	DLPQAQSNLQWPRKTS*LKIPHERL
3822	11873	A	4758	250	532	
3823	11874	A	4759	524	677	
3824	11875	A	476	3	232	
3825	11876	A	4760	110	1520	
3826	11877	A	4761	1	635	
3827	11878	A	4762	2	4398	
3828	11879	A	4763	2016	2227	
3829	11880	A	4764	1388	1520	
3830	11881	A	477	2	732	FVPGAEMAASGRCLCKAVAASFFPAWR RDNTEARGGLKPEYDAGVIGAGHNGLV AAAYLQRLGVNTAVFERRHVIGGA AVT EEIIPGFKFSRASYLLSLLRPQIYTDLELK KHGLRLHLRNHYSFTPMRKR VQA AKVP RCLLLGTDMAENQKQIAQFSQKDAQVF PKYEEFMHRLAL AIDPLLD AAPVDMAAF QHGSLLQKRRALSTLKP LLAGRILGAQ LPRYYEVL TASITKVLDQWFES
3831	11882	A	4770	620	903	
3832	11883	C	4771	230	487	MLNLASPLDKLTLQNTTQNGDSSTHISS NSIHKHTSSSSSVLPDGTLEALFVSSPKV EASPLEAXVPCSASHSCNTSSKLNRRRL*
3833	11884	A	4772	1	350	
3834	11885	A	4775	97	185	
3835	11886	A	4776	845	942	
3836	11887	A	4777	510	636	
3837	11888	A	4778	22	333	
3838	11889	A	4779	310	422	
3839	11890	A	478	161	610	GRRPSPQETPRPTSLSGAPPTPRHSRCPPN HTVSSASLSLPSRHRLFLTYRHCNFSILL EPGCSKDTFLLLAIKSQPGHVERRAAIR STWGRVGGWAMGRHLKTD/GSSYGWH DA/RTPTQLMAYESREFDDILQWDFTED FFNLTLKEL
3840	11891	A	4780	1	140	KIRCEGLSRLDKGE/RR/RGKGHDG/LYQ GLSTATKDYDAFHMQUALPPR
3841	11892	A	4781	17	283	
3842	11893	A	4782	2	673	
3843	11894	A	4784	131	523	
3844	11895	A	4785	197	582	
3845	11896	A	4786	235	416	
3846	11897	A	4787	280	569	
3847	11898	A	4788	208	486	VQRHCLAGLIHHPFQKWNPKDQILDPIW RQGRRSTSPRAPGRRGPARGPAPSPAP RGRRRWAGFRQRTPHTGPPAPTKAKT LLAGREPPR
3848	11899	A	4789	190	594	
3849	11900	A	479	15	405	GGTGAMAPW/AGGEHSRMNPLRAVWL TLTAAFLTLTLQLLPGLPGCAIFQDLI RYGKTKCGEPSRPVACRAFDVPKRYFSH LYTISFLWNDISAFW/LFLFLLFTPLFSY LRFLFHSHLASCFFHLV

3850	11901	A	4790	523	722	
3851	11902	A	4791	171	320	QDLFSSSRQLEAFSNTCKRTQRTCRNTR MYR*RYSCGGTE*GSYPTNLE
3852	11903	A	4792	243	445	
3853	11904	B	4793	320	434	XQCPLNRMAGHISSPYRSEAVVSSPGAP VRTGPSWEFGK*
3854	11905	A	4794	146	609	
3855	11906	A	4795	874	1126	
3856	11907	A	4796	1	957	
3857	11908	C	4797	209	406	MTRCGSLGPSPLQGVYMATVRRGDSVW WGTECGRDSAPVRVSLFLLCSCWGWWS RGLTPWRPCGP*
3858	11909	C	4798	133	237	MFMDXXXXXXGGRFKGSLGGPKFTRAC KVKFFSL*
3859	11910	A	4799	250	422	ASAMVTSTSTPGSILMEVICLTISEGLCKS MSRL*ILIWKRSHVLEPSPQGVFLVVI
3860	11911	A	48	1662	1858	PSFLETEPCSIQARVGVHDLGSLQPLPP IGSSNSPASASQVAGITGA*HHARLIFLFF VEMGCAE
3861	11912	C	480	80	370	MWAPREQLLGWAAEALPAKDSAWPWE EKPRYLGPTVFEDGAVLFTEAEWKRLSL EQRNLYQEAMLENLRNLGSLXXXXXXXXX XXXXLALDLNLGFWL*
3862	11913	C	4800	33	158	MRMQQPSVKPGFKDLQKCKTmplLLM KYIVLENIGLKIFLR*
3863	11914	A	4801	3	344	AQDRLHWGQTQNNQQRGGHALVPAEV* WDHPSWQINSRFYKPEQ*KVFSTSSSSSS GGAVLKNPWGGQSLRGLARKNLFYRG PNKNLPGNFGKETLLWGGDKLGQPPSR NLRL
3864	11915	A	4802	7	1268	
3865	11916	A	4803	65	376	
3866	11917	A	4805	64	1355	
3867	11918	A	4806	2	451	AQKESRSVQRSWKLKPLIVLSPLQTGL TVQSTWSTCPVSRLVTLSQLGVHSRSL SSRCRDEGFSDDPEATEPQGNPNPSC* GAGTAWGRMEPPAPQHPGDFPTPL*MS WC*DCVNPKTTHGPVLWPPFEAKTKQP DTLCSGAGLY
3868	11919	A	4807	239	580	ASTREVSLSGRTWPMIMVVPPTSAAWG MSLLSCTPLCFLPCRLSDR*PCSKASFSSD PRSSRRQVEVHLVKALPSPSEDAPPPPA RNSPAEASPVMPQNFLISAKPNPLASL
3869	11920	A	4808	1	180	FPGLGPHPCSNCHLP*APSPLLPG*PPL SSQPLSEERGSEGRSEGVDAAHTARLAP NG
3870	11921	A	4809	1018	1284	
3871	11922	A	481	1	1083	
3872	11923	A	4810	704	978	
3873	11924	A	4812	63	131	
3874	11925	A	4813	204	448	
3875	11926	A	4814	397	553	
3876	11927	A	4815	361	764	RSKYAASKPALAIWDHHPGNLVRISAVH *RHTWFKLLFNVIIFTVFSSHFFNLFFLLF CLFFIHHFFDQPGHCHLCVTPATCVRHL GIMRKSC
3877	11928	A	4816	137	262	
3878	11929	A	4817	265	394	
3879	11930	A	4818	1817	2233	RITFQERLQARSREVGSARPKTARQVC RLPAAAAKSPLARSRSACFRCLQKVTEE RECGRITGSP*TSSFTKTLRTITPFTSHKR RVGHIQSNQPPEDSNDRTLREPECGCW SESWAPPHFASSNRGLPGSESME
3880	11931	A	4819	569	950	

3881	11932	A	482	3	503	TGTPVSTISWCCYLVCLLLACVRAQMW APREQLLGWTAELPAKDSA WPWEEKP IYLG PVT FEDVA VLFTEAEWKRLSLEQR NLYKEVMLENLRNLVSLAESKPEVHTW PFCPLGFGSQQLS QDELHNHPGFGHA GNQLHPGNPCPEDQPQS QHPSDKNHRG AE
3882	11933	A	4820	1868	1912	TFVKN*DRSKHITY
3883	11934	A	4821	1003	1094	
3884	11935	A	4822	810	970	
3885	11936	A	4823	133	261	
3886	11937	A	4824	76	475	
3887	11938	A	4825	1	1647	
3888	11939	A	4826	1	1459	
3889	11940	A	4827	456	705	
3890	11941	A	4828	417	791	
3891	11942	A	4829	553	734	
3892	11943	A	483	138	2125	
3893	11944	A	4830	246	346	AFEENLLRVCKKLYSVFTQMPKMN FAN VFIGAN
3894	11945	A	4831	3	241	SCERARFWAAAVAGVAATR VRRRLAIT GLTMERKVLALHARKKRTKAKDKAQ RK*/RLVPQH PILWIFLRHLLCSGFTS
3895	11946	A	4832	195	266	GVWRPLSGCNASSA*SQEPCTT
3896	11947	A	4833	1	1278	
3897	11948	A	4834	2854	3176	PVISSSVCRASPKSRIFSSQS SFTARLLGF RSL*IMSAECIYFRPRRIW*IRN*TWSSVS F*HFHNVVQICPHEMGHQIHIIEFLQRPC RCKNVQQT NHIFMFHMFK
3898	11949	A	4835	1	2991	
3899	11950	A	4836	472	575	
3900	11951	A	4837	1	248	
3901	11952	A	4838	676	788	
3902	11953	A	4839	212	677	
3903	11954	A	484	1	2580	
3904	11955	A	4841	92	316	
3905	11956	A	4842	1	578	
3906	11957	A	4845	788	1173	
3907	11958	A	4846	35	406	SGTPASPCLEMDPN CSCSPVGSCACAGS CKCKECKCT SCKKSECRAFPANLGDGPS *SREPRALQAGAGQ*PASP NPSFNT*FRIR PQIALKMGCCSCCPVGL/CAKCAQGCIC KGTSDKCSCCA
3908	11959	A	4847	299	981	
3909	11960	A	4848	152	797	
3910	11961	A	4849	1	124	
3911	11962	A	485	1	687	
3912	11963	A	4850	2	719	
3913	11964	A	4851	98	263	
3914	11965	A	4852	741	965	AHLPEFLLSPCPSLGGPRPRSHCRW*HCP RLRAAPPPA*SALCLGGCCECVAAPGRW YCWVPGDRACSPHTCAR
3915	11966	A	4853	105	284	

3916	11967	A	4854	407	1815	TRATRWRKRTKRYTLRKTERWSPRVIMD SASR/HAPGNGLYVNYGLKALNIHGGQK LTLAEHGGAYGATADMSAKIGGEDLAI NTVRQVSLNQGNDYQGATYVQMGTLR TDADGALGNTRELNISNAIIVDLNGSTQ TVETFTGQMGSTVLFKEGALTVNKGGIS QGELTGGGNLNVTTGGTLAIEGLNARYN ALTSISPNAEVSLDNTQGEFSSKRRQTRK EIFLSRMEQILPWQNMVEVIEPFYPKAGN GRRPYPLETMLRIHCMQHWYNLSDGAM EDALYEIASMRLFARLSLDSALPDRTTIM NFRHLLAQHQLARQLFKTINRWLAEGV MMTQGTLDVATIIEAPSSTKNKEQQRDP EMHQTKKGHWPLWHEGPHCLVTTAA NEHDLNLQGNLLHGEEQFVSADAGYQG APQREELAEVDVDWLIAERPQKVPARHR LSAHGCVLYTALSRRIVALPLPVSAAP
3917	11968	A	4855	1020	1352	
3918	11969	A	4856	491	628	KTITNWRCSYRWPTCFGRK*YDWHRQ MTPPRQRAVLWTKSPKTV
3919	11970	A	4857	1	1872	MVIVPIGYAAQELFDVSQVRGGTPYGAT TIAGGDGSRQPSQEELSIARYQGEYVAG VRYRSTFYPGIS/ALSVLSHILVLYCTAGL HIGAIAIVPTRYAYCNSEFSSKRRQIRKEI FLSRMEQILPWQNMVEVIEPFYPKAGNG RRPYPLETMLRIHCMQHWYNLSDGAME DALYEIASMRLFARLSLDSALPDRTTIMN FRHLLAQHQLARQLFKTINRWLAEGV MMTQGTLMHQTKKGHWPLWHEGPHCLVTTAA VDAKSGLTHSLVTTAANEHDLNLQGNL LHGEEQFVSADAGYQGAPOREELAEVD VDWLIAERPQKRSASCIQKLNNTMIYVT HDQTEAMTMATRIVIMKDGIVQQAER NDWHFTIGAMYEIENVEGYGEDLDGLA DPSVYFNAANGPCRIALGYHEGPENIT RAPEEMRSFLLDAGAEYNGYAADLRT WSAKMTNDYAQLVKDVNDEQLALIA MKAGVSYVDYHIQFHQRIAKLLRKHQII TDMSEAMVENDLTGPFMPHGIGHPLGL QVHDVAGFMQDDSGTHLAAPAKYPYLR CTRILQPGMVLTIETGIFIESLLAPWREG QFSKHFNWQKIEALKPFGGIRIEDNVVIH ENNVENMTRDLKLA
3920	11971	A	4858	1231	1407	
3921	11972	A	4859	491	553	
3922	11973	A	486	444	843	EKSVYSLIFPCVFFLPSTWEKEDAVNILQ FWLAADNFQSQLAAKKGQYDQGAEQN DAMILYDKYFSLQATHPLGFDRCCTIKKI ESNICREGGPLPNCFTTPLRQAWTTMEK VTQNFKRIKLQEVLLVELNKI
3923	11974	A	4860	3	278	
3924	11975	A	4861	2455	2871	
3925	11976	A	4862	656	949	LLHRFCRWPALAPGAILRQIPKKQQRVG LHYSPPMSYVSWRYRVCHWITITVCLSK TLATSYARPASISVKNTKWRCFPLPKVK TNH*NIRICLPPPR
3926	11977	A	4863	448	582	
3927	11978	A	4864	495	920	WRRDRRCASHHFAVSVTTIGSSRDPDAG SLPVHSWRRKERRSALYLHRSRSHRRT YPRDRRRRAFWVQPRCWLAAILSGH*T GGCT*NIRSHQLGTSQTLRCVQNHRCR RCRSSDRPRLRVLSWHARKYQTPGRCSE R
3928	11979	A	4865	1	2799	
3929	11980	A	4866	3675	4064	VSSDQNRFCNRCYGRQLQPGGCFSLWC QFSASKSYLSPSDL**W*/QLSPSASRLPL ASLTISSSLSCAGSASFHSRSHIPGRCTCR YLRVFGVAFWAVW**HVDFLKSQQGKS

						AKKRQIAEKGRNYTQNP
3930	11981	B	4867	1	2325	MNLMEQPAKDQYLSTQGLPVLVNSLAR YPQEALPITNYFAASELAPAVARAFNKL KTLRENARSWLLKYPEHALTGLLPAALG KAGEAQDNARAALRMLTENGHQPLLQE IARRYNQPEVTDVNALLALDPLDNHPT KIPTLPAFYQPSLWTRPVLKANAQSLPDS ALLHLGEMLRFPQEEALYPGLLQVKDVC SADSLAGFAWDLFTAWQTAGAPSKESW AFTAEFSSKRRQTRKEIFLSRMEQILPWQ NMVEVIEPFYPKAGNGRRPYPLETMLRI HCMQHWYNLSDGAMEDALYEIASMRL FARLSLDSALPDRTTIMNFRHLLLEQHQL ARQLFKTINRWLAEGVMMTQGTLVDA TIEAPSSTKNKEQQRDPEMHQTKKGNQ WHFGMKAHIGVDAKSGLTHSLVTTAAN EHDNLQGNLLHGEKQFVSAMPATKEP QREELAEVDVDLLIAERPGKVTKLKQNP RKNKTAINIEYMKASIRARVEHPFRIKR QFGFVKARYKGLLKNDNQLAMLFTLAN LFRVDQMIQLPTYELSSGIGAVRRQAE DGTAPAINSKRVYRIMRQNALLERKPAV PPSKRAHTGRVAVKESNQRWCSDGFEF CCDNGERLRVTFALDCCDREALHWAVT TGGFNSETVQDVMLGAVERRFGNDLPSS PVEWLTDNNGSCYRANETROFARMLGLE PKNTAVRSPESNGIAESFVKTIKRDYISIM PKPDGLTAAKNLAEAFEHYNEWHPHSA LGYRSPREYLRQRACNGLSDNRCLEI*
3931	11982	A	4868	82	199	
3932	11983	A	4869	882	1091	VCHAAPPILRTTATSVPAVPGAASDSGY AAQFAAYIAC*LRAAFPSGGIHTAASHPS SISPRQRVTAGS
3933	11984	A	487	77	199	SKSRPIASNKIEAIKSLPAKKP'GPDGFAT EFYQTFKEEL
3934	11985	A	4870	3	274	
3935	11986	A	4871	2888	3076	KTITNWRCYSRWPTCFGRTK*YHWHQL LSMVRQLMVLWSKKISSWFMGPPIIRKSI LAENSI
3936	11987	A	4872	1	2043	
3937	11988	A	4873	222	513	PEGAPRTPGPLPRAPGRTSEGAGRRGGP LGPVVTMCLPRRQLSYPDVG*AEGGLPA LDPWPGHARGSEGPRRQGGAVLAVRLG GRVYVHLHTPGGQ
3938	11989	A	4874	20	161	

3939	11990	A	4875	1	2251	MAGVGAGPLRAMGRQALLLALSHRRQ GLYFHIGETEKRCFIEEIPDETMVIGNYRT QMWDKQKEVFLPSTPGLGMHVEVKDP DGKVVLRSQYGSEGRFTFTSHTPGDHQI CLHSNSTRMALFAGGKLYREERFRLTSE STNQRVLWWSIAQTVILITGIWQMRHL KSFFEAKLRVRAALLSSAMEDSEALGF EHMGLDPRLLQAVTDLGWSRPTLIQEKA IPLALEGKDLLARARTGSGKTAAYAIPM LQLLHRKATGPVVEQAVRGLVLVPTKE LARQAQSMIQLATYCARDVRVANVSA AEDSVSQRAVLMKPDVVGTPSRILSH LQQDSLKLKRDSELLVDEADLLFSFGF EELKSLCHLPRIYQAFMSATFNEDV QALKELILHNPVTLKQESQLPGPDQLQ QFQVVCETEEDKFLLYALLKLSLIRGKS LLFVNTLERSYRLRLFLEQFSIPTCVLNG ELPLRSRCHIISQFNQGFYDCVIATDAEV LGAPVKGKRGAEGPKGDKASDPEAGV ARGIDFHHVSAVLNFDLPPTPEAYIHRAG R**CDGPGICMTARANNPGIVLTFVLPT QFHLGKIEELLSGENRGPIILPYQFRMEI EGFRYRCRDAMRSVTKQAIREARLKEIK EELLHSEKLKTYFEDNPRDLQLLRHDL LHPAVVKPHLGHVPDYLESKVPEPTAQL QAQRKEIQTHSQALLRLGLSGAEHIVE HRLTPFVDRRGSGAYCTA
3940	11991	A	4876	2	2318	
3941	11992	A	4877	866	1150	
3942	11993	A	4878	417	872	
3943	11994	A	4879	3	282	
3944	11995	A	488	29	380	SETPQAPTLPQTQGSLEGEERMEDIRTLT VALFTLICPGSDEKVFEVHVRPKKLAV EPKGSLEVNCSTTCNQPEVGGLETSLAD KVFAQTEQAQWKLHLLGSSNLSPDTVLA HCHFH
3945	11996	A	4880	2	437	
3946	11997	A	4881	336	442	
3947	11998	A	4882	523	630	
3948	11999	A	4883	1	1004	MAPWPHENSSLAPWPDLPPLANTANTS GLPGVPWEAALAGALLALAVLATVGGN LLVIVAIAWTPRLQTMNVFVTSAAAD LVMGLLVPPAATLALTGHWPLGATGC ELWTSVDVLCVTASITLCAVADRYLA VTNPLRYGALVTKRCARTAVVLVWVVS AAVSFAPIMSQWVRVGADAEARCHSN PRCCAFASNMPYVLLSSSVSFYLPPLVM LFVYARVAVVATRQLRLLRGELGRFPPE ESPPAPSRSLAP/APGYANSFNPFIYCRS PDFRSAFRLLCRCGRRLPPECAARPA LFPSGVPAARSSPAQPRLCQRLDGERHL
3949	12000	A	4884	144	1423	
3950	12001	A	4885	1309	1702	
3951	12002	A	4886	1	648	
3952	12003	A	4887	1	1049	GGGGTTWPASVPPRHLACLRPAAPRLRP PSPARRAMPVAGSELPRRPLPPAAQERD AEPRPPHGELQYLGGIQLHLCGRVKKDD RTGTGTLVFGMQARYSLRDEFLLTTK RVFWKGVLEELLWFIKGSTNAKELSSKG VKIWDANGSRDFLDSLGFSTREEDLGP VYGFQWRHFGAEYRDMESDYSQGQVD QLQRVIDTIKTNPDDRIIMCAWNPRDLP LMALPPCHALCQFYVNVSELSCQLYQRS GDMGLGVFNIAFYALLTYMIAHITGLK PGDFIHTLGDHLYLNHIEPLKIQLQREPR PFPKLRILRKS*RLIDFKAEDFQIEGYN PHPTIKMEMAV
3953	12004	A	4888	437	851	

3954	12005	A	4889	1	1063	
3955	12006	A	489	27	406	
3956	12007	A	4890	496	701	
3957	12008	A	4891	875	1156	
3958	12009	A	4892	76	382	
3959	12010	A	4893	71	228	
3960	12011	A	4894	69	242	
3961	12012	A	4895	146	431	
3962	12013	A	4896	3	262	
3963	12014	B	4897	185	338	MSTTFMGRSQATGGCVQTDTPGPPTLLQ DTQQLSVVHPDIQLEVGFPGGGGX*
3964	12015	A	4898	69	303	
3965	12016	A	4899	260	881	
3966	12017	A	49	245	616	NPPN*NPPNACVKPEFENQPKLWSQRG VGGPRREGPPAQAPEGTAGRRADKL RVGWRPPPATSAQGSASHPPLFC*SSRSR GPSSPCLEAPTPGASPT*TIIPPRRAWRR ACWTWPCSCPTPCG
3967	12018	A	490	191	1074	RLPEMSSFGYRTLTVLFTLCCPGASDE KVFEVHGEAKGSWAVEPKGSLAEVNCST TCNQP*SGVGLGDLS*D*GFCWDEQVQ L/WKHLYGFQTFSHDVTVLQ/CHFTCSGK QEISMNSN/VSALYQPPRQVILDTCNPLL GGFLGKSFHHLKLQGVPTVEPLGQP*PSF LVS VGNETLHYETFGKAAPAPQEATATF NSTADREDGHRNFSCLA VLDLMSRGGNI FHKHSAPKMLEIYEPVSDSQMVIIIVTVVS VLLSLFVTSVLLCFIFGQHLRQQRMGTY GVRAAWRRLPQAFRP
3968	12019	A	4900	373	491	
3969	12020	A	4901	1	232	
3970	12021	A	4902	3	701	
3971	12022	A	4903	3	1622	
3972	12023	A	4904	26	168	
3973	12024	A	4905	258	484	
3974	12025	A	4906	1121	1518	
3975	12026	A	4907	19	541	
3976	12027	A	4908	288	561	
3977	12028	A	4909	1	1857	
3978	12029	A	491	3	403	SWSGSAAALRMRPVRLMKVFVTRRIPA EGANLKVISTMSVGIDHLALDEIKKRGIR VGYTPDVL/TRYHRRTRSLPATYHLPPV AGGHRGSEEWWWTSWKPLWLCGYGL TQSTVGIIGLGRIGQAIARRLKPF
3979	12030	A	4910	81	414	
3980	12031	A	4911	1	507	
3981	12032	A	4912	519	858	GLSEILAIGFCPHQVQRGPLGKVLQSLA AQLPGPFTRLVHRRQSLHAVPKCIHAVP CSFTLFHLPQEGLQRPEFLAPWGLHLKA TPVWPFANPRCCSILGAGGYFVQLTGM S
3982	12033	A	4913	67	467	
3983	12034	A	4914	2	307	
3984	12035	A	4915	1	2112	
3985	12036	A	4916	796	1018	
3986	12037	A	4919	512	625	
3987	12038	A	492	2	465	DAAGANLKVISTMSVGIDHLALDEINKR GIRVGYTPDVL/TRYHRRTRSLPATYHLP PVAGGHRGSEEWWWTSWKPLWLCGY GLTQSTVGIIGLGRIGEAPTGPLARPGSHS VVCIPGTTCLKAETHMLSGHFACSRDIS NEGYSFVKHRQIHK
3988	12039	A	4920	206	366	
3989	12040	A	4921	504	690	

3990	12041	A	4922	3	336	
3991	12042	A	4923	22	129	
3992	12043	A	4924	852	1364	
3993	12044	A	4925	1	897	
3994	12045	B	4926	449	2578	MLLECEEEAVCVIMCASVKYNIRGPALIP RMKTKHRIYYITLFSIVLLGLIATGMFQF WPHSIESSNDWNVEKRSIRDVPVRLPA DSPIPERGDLSRMHTCFDVYRCGFNPK NKIKVYIYALKKYVDDFGVSVSNTISRE YNELLMASDSYYTDDINRACLFVPSID VLNQNTLRIKETAQAMAQLSRWDRGTN HLLFNMLPGGPPDYNTALDVPDRDALL AGGGFSTWYRQGYDVSIPVYSPLSAEV DLPEKGPGRQYFLLSSQVGLHPEYRED LEALQVKHGESVLVDKCTNLSEGVLSV RKRCHKHQVFDYPQVLQEATFCVVLRG ARLGQAVLSDVLQAGCVPVVIADSYILP FSEVLDWKRASVVVPEEKMSDVYSILQS IPQRQIEEMQRQARWFEAYFQSIKAI LATLQIINDRIYPYAAISYEEWNPFAVK WGSVSNPLFLPLIPPQSQGFTAIVLTYDR VESLFRVITEVSKVPSLSKLLVWNNQN KNPPEDSLWPKIRVPLKVVRTAENKLSN RFFPYDEIETEAVLAIDDDIIMLTSELOF GYEVWREFPDRLVGYPGRHLWDHEM NKWKYESEWTNEVSMVLTGAIFYHKY FNYLYTYKMPGDIKNWVDAHMCEDIA MNFLVANVTGKAVIKVTPRKKFKCPECT AIDGLSLDQTHMVERSEKINKFASVFGT MPLKVWEHRA*
3995	12046	A	4927	533	804	
3996	12047	A	4928	965	1109	
3997	12048	A	493	217	426	TLVNMVEADVTTTRCLIRSGIRVGYPDV L/TRYHRRTRSLPATYHLPPVAGGHRGSE EVSERRPGAVAHGC
3998	12049	A	4930	507	981	CWRSTATCYQWVIKSANRCTLQVGTRR RTMDNGDERHSRICPGM*EAARSLFIPT/ CQTRH*RPVPQRLRSNTAPIRT/RPRPSV HRPTGRESMPRTRPPEPEPLQPLAATKR RSTSENASYSDALLRGLGKLSGKDREAR RGPRSRPGSRVQTAGAAL
3999	12050	A	4931	1121	1272	
4000	12051	C	4934	178	360	MGQELRHFGTVTWPMHRKMERRXFPRE QGPGXQLLPQWRGNEKTLGSAGRQGED HRLRAE*
4001	12052	A	4935	409	516	
4002	12053	A	4936	288	573	
4003	12054	B	4937	1	1152	MGSEAGCLVRAERFQLIVERDVRSSFPS WKELSMPGFIQKQARVYVQFFLADALI LPVPRPCLHSATPSTPQTDPTGPEGPHLG QSRLFLLCHKEALMKRNFVPPGASPEV PKPALSFYVLGSWLGGTQRKEGTGWGL PEPQGNDDNDQKVHLIFFGSSVRWFEFL HPGQVYRLIAPGPATPMLFEKDGGSSCISR RPLELAGCASCLTVQDNWTLELESSQDI QDVLDANKSLPESSLTDLLSDKSHNVYC CFRSSTYVQVLSFPETTISIPLPHIYLAEL LQGGQSPFQATASCHIVSVFSLQLFWVC AYCTSICRQSSARVDEPMTMFLWTLCTS PSVLRPIVLSFELERKPSKIVPLGTPSRSSS FQPFAARAKGGK*
4004	12055	A	4938	409	701	KEKVKNWLLNPLPKAQEFGYPSPLPA TLHLKLSRPCKLQDH/CCCHMVIHTGH HGFGSPILHQEPMGSRKYSRL
4005	12056	A	4939	301	573	

4006	12057	A	494	80	1058	RCSSPAGYPPRCRVALARAADCEVEQW DSDEPIPAKELERGVAGAHGLCLLSDH VDKRILDAAGANLKVISTMSVGIDHLAL DEIKKRGIKRVGYTPDVLTRYHRRTRSLPC SYHLA\PLAGGL\QGSEEW\WWTWKP LWLCGYGLTQSTVGIIGLGRIGPGPLLGV LKPFQVQRFL\YTGRQPRSEEA\EFQAE FVSTPELAAQSDFIVVACSLTPATEGLC NKDFQKMKETA\VFINSRGDVVNQDDL YQALASGKIAAAGLDVTSPEPL\PTNHP LLTLKNCVILPHIGSATHRTRNTMSLLAA NNLLAGLRGEPMPSELKL
4007	12058	A	4941	339	494	
4008	12059	A	4942	408	546	
4009	12060	A	4943	1421	1581	
4010	12061	A	4944	1	1113	MHQEDLRAWYLDLGLPSHQNAQPTAW KCQRAPSPYTHQDMALIPSPTARWLSPE KEPKQGEVGEKSLPDPTLPLTDPRLTGS TEQAHAEGLAALMSALRVSHLQGRGGV VTLVDSQLGVIAVSSTQFNKGPSYRLLA DVQNRLLPKYDSQKEAELRSWIKGFTGL SIRPDFQKGLKDGILCTLVNKLQPGSVP KINASV*NWH*LENLSNFLKAMVSYGM /NPVDLFEANNLFESGNNMQVRVSLAL AGKAKTKGLRSGVDIRDKYSEKQNFDD TTMKASQCVIRLQITNKCASQSGMTAYG TRRHL YDPKNRILPPMDNSTISLQMGTN KCASQVGMTAPGTQRHIYDTKL GIDKCE NSSMSLKMGYT
4011	12062	A	4945	272	902	
4012	12063	A	4946	281	470	TGWSWQCTPSC*TTMCVYTFMTYTWAW GCPPNHVQPHA*PVSPVLLNVGFRAKA VFSGHGYL
4013	12064	A	4947	1192	2248	APSKKLRSATLRRPGSSKDTARGPVSVG WCPSQEPLGARCATSCPWLCRLPSSVFS PRALAIRLGGGSGSLAGCAARLQGSVP CWPLARLRSASATPLSELRQQPAPPPRC DPGSRLSVPVAPCPAPRAPQPRRLPSGP RFCRCPSLSVCRSLG/PVSPPPQFLLPCLP RWLARSLALGRGETASQANPRNLCKKL AMKFKKFFDFGAIFEWSQSFLSPRPVRF PLEPEGSPVPASLPERPSRHPASSSGRLQ DPGLILCSLCHYLFIRTDYAVVTRAGNG GECVWLQKFPVKLASLMMSFGLYIGHF LGVPPANPQEAPRTRSFFTPKSVMESAV PGTAERVLHPG
4014	12065	A	4948	654	730	
4015	12066	A	4949	1574	1881	
4016	12067	A	495	3485	4056	DLPSRHRVMEACHVCCVRRGCCV/CAC /ICVCHMCSVWCVRCVLCVPQVLCVVH ALCV\CVCCCLQCARYVWCMCCVCSVLC MRCV/CVCVPRVLCV\CVCCGCSRCSVW CVCCVCRV/CLCV/CACAVWCVCCMC/L CVLCV/CACACVCCVCRVCSVWCVRCV/ CVCCACSVWCVLWCVC/VCMQCVCYV WCMCCVCCVLE
4017	12068	A	4950	207	315	
4018	12069	B	4951	199	420	MSLPIGIYRRAVSYYDDTLEDPA PMTPPPS DMGSVPWKPVIPERKYQHLAKVEEGEA SLPSPAMTLSSAIDSVDK*
4019	12070	A	4952	336	594	
4020	12071	A	4953	401	1301	
4021	12072	A	4954	388	681	
4022	12073	A	4955	272	452	
4023	12074	A	4956	256	381	
4024	12075	A	4957	58	301	
4025	12076	A	4958	562	1221	

4026	12077	A	4959	152	358	
4027	12078	A	496	1	858	
4028	12079	A	4960	184	361	
4029	12080	A	4961	2017	2406	
4030	12081	A	4968	1	396	
4031	12082	A	4969	67	180	
4032	12083	A	497	106	542	GATLGGMSEHVEPAA\PGPGPNGGGGGP AP\ARGPRHPQFSTPTPLINVRDLFHA\I FFKMAV\TY\SRLFPPAFR\RLFEEFFVLLK ALFVLFVLAYIHIVFSR\SPIN\CLEHVRD KWPREGNPALWKVRHNSSRAPVFLQFC DSGGR
4033	12084	A	4970	2	415	
4034	12085	A	4971	1090	1203	
4035	12086	A	4972	3	356	VQNRTLHFSLLYEPKRKSKPESYLYCYKI FQDEPLAP*AFL*IPASLSQIQ*FTSRK GK ASQNLITYVIKYSKMSLWPPEPSCKYLP CLKSNSSQLSWLLWCVLVWGVGWKYC QGWWGPPPLHLVSLWGGYSASRWEDIGK QHTSLRGVPGKVIFIIYI
4036	12087	B	4973	148	305	MDNSASVEQLQETLLRALRALVLKNRPL DTSRFTKLLKLPCGPFISLGHN*
4037	12088	A	4974	484	927	
4038	12089	A	4975	2053	2615	RGCPFGGRKAPFGLLFNVKDQTMFLSR TTYSLQELGAMGMGDLLSAMFDFSEKL NSLALTEELGLFTA\VLLVSADRSGME \NSASVEQLQETLLRALRALVLKNRPLE TSRFTLLLLKLPDLRTLNNMHSEKLLVLS GWTAPVTPPRAGLSAGCPLCTESELCTS LSFYETEKEKQTRILFILL
4039	12090	A	4976	173	520	
4040	12091	A	4977	44	213	
4041	12092	A	4978	840	980	
4042	12093	A	4979	72	464	
4043	12094	A	498	309	586	NKNLEISFFETESRCCQPRLECNCAISV HCNLCPLGSSNSPTS/ASQVAEMTGVC HAQLIFVFLVAMVFHLH/VGQGGLELLT SGGPPASASQ
4044	12095	A	4980	1	132	
4045	12096	A	4981	99	212	
4046	12097	A	4982	84	196	
4047	12098	A	4983	2	186	
4048	12099	A	4984	87	347	SLNFHIGQ*AQPHAGFGLRGS*GPCPPCC QANAC*APEPNDSMEDQAPGVRHPPLSN VKIQGSE
4049	12100	A	4985	176	1554	
4050	12101	A	4986	1	1863	
4051	12102	A	4987	1171	2784	
4052	12103	A	4988	176	464	
4053	12104	A	499	3	451	
4054	12105	A	4990	7	394	HHELQYPIRFCPIKSCCKGRNSLQNKIYD LSLQNFPPATLRQNLALSPRLECSGTISAP CNLHLPSSDSPASASRVAGNAGMHCH KQLIFVFLVETGFHHVAQAGLRTP*PCG SGPPRGPKSAGDLQ

4055	12106	A	4991	1	2201	MTNLAMVERDSEAGTAASRFPGNHAAK GKAQAHYKVRPAEVRCLKLGPWEVT LRYTIKHPYKLCGKRQHVFFTSRSDV GFMLTTLKPGSVSVESKMNNKAGSFF WNLRFQSTLVSTSRMRLCCLGLCKPKI VHSNWNILNNFHNRMQSTDIIRYLFQDA FIFKSDVGFQTKGISTLTALRIERLLYAKR LFFDSKQSLVPVDKSDDELKKVNLNHEV SNEDVLTKETKPNRISSRKLSEECNSLSD VLDAFSKAPTFPSSNYFTAMWTIAKRLS DDQKRFKRLMFSHPAFNQLCEHMMRE AKIMQYKYLLFSLHAIVKLGPQNTILVQ TLLRVTQERINECDEICLSVLSTVLEAME PCKNVHVLRTGFRILVDQQVWKIEDVFT LQVVMKCIGKDAPIALKRKLEMKALREL DRFSVLNSQHMFEVLAAMNHRSLILLDE CSKVLDNIHGCPLRIMINILQSCKDLQY HNLDLFKGLADYVAATFDIWKFRKVLFI LILFENLGRFPVGLMDLFMKRIVEDPESL NMKNILSILHTYSSLNHVYKCONKEQFV EVMASALTGYLHTISS\ENLLDAVYSFCL MNYFPLAPFNQLLQKDIISELLTSDDMK NAYKLHTLDTCLKLDDTVYLRDIALSLP QLPRELPSSHTNAKVAEVLSSLLGGEGH FSKDVHLPNHYHIDFEIRMDTNRNQVL PL/SLDVGTTSATDIQRLITYISFAGLSEL KS
4056	12107	A	4992	3	485	LHTLDTCLKLDDTVYLRDIALSLPQLPRE LPSSHTNAKGGQRS*AALLGGEGTTPPSK DVHLAPHNYHIDFEIQNGTPNRNPAYP LS\DVDTTSCQLQIFKE*LCYVFPR SAYCLG SSHPRGFLAMKMRHLNAMGFHVILVNN WEDGQTRDGRCSQSPFLKT
4057	12108	A	4993	40	131	ATKAFEENEVYKTTLVVYCFKCVILKA SL*FRILLTEWFYMRWLKKYHIVCF/PLG DAKIFCFMYITVLFKLTLEDSC*TLVVYCF FKCVILKASL
4058	12109	A	4994	2437	2762	GIILFWAQLFPASFFFFFFFF*DGVSLLCCPG WSAVVRSQLTASSASRVQAILCLSLPSS WDYRHLPPCLANFFVFL/CRDGGFTMLA RLVLNS*AS*VHPPWPPQSAGDY
4059	12110	A	4995	1	299	FSLIKISMMLLMKMEK*NLQFIW/KPRRL QIAKARLNASSSSSSSSSSSSSSSSSVVW YWHKKRHIDHWNRLSNSINRHICSQLI LTKVPGANTKDHP
4060	12111	A	4996	3	358	
4061	12112	A	4997	76	386	VLPPPSSPALHSPAPPSTCPYLPGA/PPPLL PPCAGRSPAAAAPHCPAPCAPRH*GSR* LESPAPQGPQSRARMPAWPLPPAPPTD PTAPPAPRSHWPAAPPT
4062	12113	A	4998	66	381	VLPPPSSPALHSPAPPSTCPYLPGALPPE/ GPPSRPPRTFIGNPGGQGPGEVSPIVLRS PSQPH*PGNQGPCSSQPPGSPRSEHGC* HRCWALYGQQEKPAAPS
4063	12114	C	4999	36	236	MGPTIPDXSXFWRKPITWMPTWEGTSN VGPQPLSSSKSLHSXRGHAPIPTGQAGP RDSGPGASP*

4064	12115	A	5	105	1711	VESNTGRKWTEAAGTGDIQCLAWGSSG DGRGGDPRGRVPAALGA AVVAAMAS PDPWAPGPKQPG/LMGRP GSSPALWAQ PA*PPY/FPGLTPPCPQEVQSFPPG/EQG RVLRRGGQNV T*GEGRV PQVCGRPPCPS LMEPFVYTPASFPSPGQPGTGRRRQDG EPRLGTGGQTGSPGGLVSGPRGRAAKP GGTQGG LVRQVPPGEHPTPGEAR I*HLG WVGCP*RMGQGNFGVASKPFLDL/PGPM LGSTNCDNLGSFGLS/GPMF PKWPTSTGR LPKGPSAN*GG/PGMERPPGVMPSS/GHQ DPEASGPLDLLVRAALQGG*ALGHKIGG AS*TSQKAESLPQPLGPPGGGCYGITQNP LASGPKQTWSMGRPGSFPALWAQNRLT FLTTPRPSPPCPQEVQSFPPG/PSQGAER RARLSRPRERGGLKVCGRPPCPSMMEP SCLHTC*PLSLPASLRQAKEPPSCGLRAP S*HLRRPCLTPPFRPQGLLTSHCPQKPA PDSGLLHSP LNSPRGFSGQCNPRLHPQL NPSNRDR
4065	12116	A	50	96	547	ADPAAPVPWFGPSQPGARAQWPGLLGP AAPPPALCSPP*TD SGVQDPVSNAPWVN SQQWWRQ/PAATEKPPATKAPGLLVQEK YKVS R*QKGW/PSTKKAKGYFP*NCPL QFLPPLLSLPPGDISGQCPHLPKLIPPPS YPAPCPGFCPR
4066	12117	A	500	2	493	GLEFGTSHRLRENPPMVA VSCPTKTNVK GPPGGKVGAHAGÆY GSEALERMFLSFP TNTKTYFPHFDL/SHGFAQVKGATAKKV ADALTKAVANVDDMPNGAVRPEATL HAHKL RVEPVNFKLLKPLACLVDPGPA HLPGRVSPLAVARLPWNKVSWAFCGQI
4067	12118	C	5000	231	521	MRAPVCQSQSVYFTQTISLKPTITVPGRC DAFQVTNNKLAQATQSEG VAGASNPD L ESHEPAHGMQREFSGVTAVSQADTVMN YPVSNGWENRGSG*
4068	12119	A	5001	46	1438	LSTPTALVWPGHRPP*PIP*WPLCPQEGG PGGLPRGWSSGT VAP*S*AGGCEGKIQS YPQGSASWSEPAPSPS/PAFPAPFLMLNC SGPLALSLSGPKWAREQL*CVPPRALAT GLPLEVWL*LRPFPWP*CLPPPG/PWVQL LHSLSSCWGPPMPRTIRGIPPGSICRLCF CPAAGLPPWWLSSGQLPHPPGTPLCSVS *GGPDQPPLLCLSPWAPGLSSTALCHSRL VLPATPIPVVTWPSCGLSTT/PPAPGATPT PAACFQQVPSAPDKPLLVSPPAKHPPVP PPVGLGLRAMDR/PPGPIPETPRDLPCHP TPPKSKLQARGPWPGWVD*TTSGWKLR KEALMGPTIPDPKSSSWAGPLVSLPLVL GGNPSPWNALRGKRDPRKCGNPQPPSPK LRKSPPTAPGKTPAPYSPREKAGPQKTL GPRGPPP*SRDPPL*LARTPADPGVTRGA GPPAPRRNP
4069	12120	A	5002	1	874	LDDALESCDEHGYRTASSSCLRKGMV KSSSNREL V*SRYTDITI/SGSTSEFPDWA AGQRGSSHPRRWAARQRRSSLHLYSEP DTDAKHQDDALTEEET*G/SRSASCAHW L*SNCCTATGSSTLLPLTSRL*LPRMAVK SSRASAALPSSRFSSWHRACSASPA AATT AAPSAWGLSSNIPSGPAGCAPRPTSFSL PGALPTTTRRRHSSDRSRSPSRGLTSAR ESGSKSPQG/TARDSRQALRSAMVTKTS WRMELDRECGRSSCTSTFCVSAASRGFL LQTSFRWE
4070	12121	A	5003	1	2487	

4071	12122	A	5004	227	2119	RCRKEMFSLCWAYYCI*KLQQIPMRLAP LPTLDPV*SP/GGASTATNSGSSVTSSGVS TATISGSSVTSNGVSIVTNSEFHTTSSGIS TATNSEFSTASSGISLATNSESSTTSSGAST ATNSESSTPSSGASTATNSDSSTTSSGAST ATNSDSSTTSSEASTATNSESSTTSSGAST ATNSESSTVSSRASTATNSESSTTSSGAST ATNSESRTTSNGAGTATNSESSTTSSGAS TATNSESSTPSSGAGTATNSESSTTSSGA GTATNSESSTVSSGISTVTNSESSTPSSGA NTATNSESSTTSSGANTATNSDSSTTSSG ASTATNSESSTTSSGASTATNSESSTTSSG ASTATNSGSSTTSSGTSTATNSESSTVSS GASTATTSESSTTSSGASTATNSESSTVSS GASTATNSESSTTSSGANTATNSGSSVTS AGSGTAALTGMHTTSHSASTAVSEAKPG GSLVPWEIFLITLVSVVAAGVLFAGLFFC VVSACVPLCECRDALKMPGGLEQLLTS RIVHWGTEGRPIATAEGWVLLAMKIRL AAEAKIKCFLDGMAAGLRSSLSRLGSQ AEALPTSQTMGGQAEILLSSQTGSRPNR GLFSLRRWAAGQRRSLTS
4072	12123	A	5005	124	670	FQRTKLLNGPGDVETGTSITVPQKKWLH VISPIFVQSLTLPFLAKWGDRLLQLIEL AAREVSDI*EETV*NETYLLLCRKTLD TLKWAHSIPSYARLFYI**FCSLKLAFSQ FLLPAIDPYGVAVGGTVGHCLCTGLAVI GGRMIAQKISVRTVTIIGGIVFLAFAFSAL FISPDGSGF
4073	12124	A	5006	3	273	AAAPGNRASAPRLLLLFLVPLLWAPAA VRAGPDEDLSHRNKEPPAPAQQLQPQV AVQGPEPARVEVSGPGWGERGCRAGC AEYQAPGL
4074	12125	A	5007	2	986	AAAAPGNRASAPRLLLLFLVPLLWAPA AVRAGPDEDLSHRNKEPPAPAQQLQPQ PVAVQGPEPARVEKIFTPAAPVHTNTE DPATQTNLGFIAHAFVAISVIIVSELGD RTFVIAAIMAMRYNRPGCWAGAMLCL/ AGLMTCLFS/VLFGYATTVIPRGLYILMF QPVLFAlFGIRMLREGLKMSPDGEQEEL EEVQAVELKKKDEEFQRTKLLNGVPGDV ETGTSITVPQKKWLHFISPIFGQALTLTF LAEWGDRS*LTITVLAAREDPYGVAVG GTVGHCLCTGLAVIGGRMIAQKISVRTV TIIGGIVFLAFAFSALFISP
4075	12126	A	5008	2	439	
4076	12127	A	5009	3	366	RDSVVEILFEQDNKEQSVATLILDSLIQCP IDTRKQLAENLEMMFDVGKTQPPLKRA FSTEK*KFD*/TINLASYQIFNQL*ANCTK YVGCFVIEDYSGSESILCLLALIYNSFDF VSLV
4077	12128	A	501	24	452	APSPDAMG/HSLWGVNVEDAGGETLG RLLVVYPWTQRFDSFNLSSASAIMGN PKVKAHGKVKLTSLGDAIKHLDDLKGTF AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
4078	12129	A	5010	387	446	
4079	12130	B	5011	16	348	MVLDCGYRESLVLPYEGIPVLNCWGAL PLGGKALHKELETQLEQCTVDTSVAKE QSLPSVMGSVPEGVLEDIKARTCFVSDL KRGLKIQAAKFNIDGNNERPSPPPKC*
4080	12131	A	5012	1	595	MGCRPVGQAGLELLTSARTCFVSDLKR GLKIQAAKFNIDGNNECPIDTRKQLAENL VVIGGTSMPLPGFLHRLLAIRYLVKEPKY KKALGKTFRIHTPPAKANCVAWLG/GK VFVGI*QVEYAMKAVENTSSTAIGIRCKD GVVLGVRKISPF

4081	12132	A	5013	3	461	YIEDDMNPFQGNLEVEQRPKSKTFL*QG AAEQIKHILANFKNYQFFIGENMISWDM VLLLDYVKGWVCPYMIFFKDGLDMD KMLNKCGLFWIYHPVIHNWASALSSH TTTRDLRQNWTDCHPGALPFILDWGFYL GVGGHCFYEKPCPW
4082	12133	A	5014	3	325	RRVSSVTQAGVQWHGLSLQPPPPGFKL FCLSLPRSQDYRCMPRPANFC/IFLVETG FHPAH*DKLVSNS*PCGPPAPASQSAGIT GVT/HRAHLPCNV/C*LDLFHHHV
4083	12134	A	5015	1593	4449	PSGLGNTCIYRRGPHLPNSHRHAARGRIS ADRRFRHLGHRELHPAPCVPRGEPHPA PCVPGHGELHPALCVPRGQLHSVPCIP GRGEPH/RCTLCPRSA/RCTLHPRDLRF NRIREIQPGAFFRLRLNLTLLNNNQIKRI PSGAFEDLENLYLYLYKNEIQSIDRQAF KGLASLEQLRLDSNTLHCDCEILWLADL LKTYAESGNAQAAAICEYPRRIQGRSVA TITPEELNCERPRITSEPQDADVTSG
4084	12135	A	5016	1	3174	
4085	12136	A	5017	1	4759	SRPWWLRASERPSAPSAMAYRSRGPR RCLLALVLFCAWGTLAVVAQKPGAGCP SRCLCFRTTVRCMHLLLEAVPAVAPQTS ILDLRFNRIREIQPGAFFRLRLNLTLLNN NQIKRIPSGAFEDLENLYLYLYKNEIQSI DRQAFKGLASLEQLYLFHNQIETLDPDSF QHLPKLERLFLHNNRITHLVPGTFNHLES MKRLRLDSNTLHCDCEILWLADLLKTY AESGNAQAAAICEYPRRIQGRSVATIT
4086	12137	A	5018	2	267	ADLSAEAL*TRREWDDIFKVLKTSS/LGQ PKILYPSKLSLINEASSSSSSSSSS/REFTT RLVL*EMLKGILHMEAQQGYLPS*KHTK V
4087	12138	A	5019	1	164	TRVNENQIESKAA YALFYKRQDVARRLL SPAGS/SGAPASPACSSPPSSEFMDVN
4088	12139	A	502	38	557	APSPDAMGHFTEEDKATITSLWGKVVN EDAGGETLGRLLVVPWTQRFFD/SFGN LSSAFCHPWATPKVKAHGKKVLTSLGD AIKHLDDLKG/TFAQA*SETALVTKLHV GS*RTFKLPGEMLLGDPLGNPIFGKRISP LEVGRLSWAERWWTWSWPVALVLPRLP LKLNC
4089	12140	A	5020	1	712	EILIIHLKRFSYTKFSREKLDLVEFPISG ARERMAGGRQKQEGVYQY*PSPHPQ/DL DFSEFVIQPNESNPYKYDLIAVSNHY GGMRDGHCMCQAVGGACPGGSGQGGD QDLPSE*LGM*ASGEGSSVVGRK*TRSEI WTLSEEARKGRRG*LSPFR/TTFACNKD SGQWHYFDDNSVSPVNENQIESKAA YV LFYQRQDVARRLLSPAGSSGAPSPACS SPPSSEFMDVN
4090	12141	A	5021	3	3090	IPLLQLLRRLWRRHGRWTEDEPQHEE LPGLDSQWRQIENGESGRERPLRAGESW FLVEKHWHYKQWEAYVQGGDQDSSTFG CINNATLFQDEINWRLKEGLVEGEDYVL LPARAWHYLVSWYGLEHGQPPIERKVIE LPNIQKVEVYPVELLLVRHNDLGKSHTV QFSHTDSIGLVLRTARERFLVEPQEDTRL WAKNSEGLDRLYDTHITVLDAALETGQ LIIMETRKKDGTWPSAQLHVMNNNMSE EDED
4091	12142	A	5022	1	1584	
4092	12143	A	5023	1	3519	
4093	12144	A	5024	3	673	
4094	12145	A	5025	3	2383	
4095	12146	A	5026	2	2348	
4096	12147	A	5027	1	7338	

4097	12148	A	5028	2	7106	KSKRQAQQMVQPQSPVAVSQSKPGCYD NGKHYQINQQWERTYLG NVLVCTCYGG SRGFNCESKPEAEETCFDKYTGNTRYVG DTYERPKDSMIWDCTCIGAGRGRISCTIA NRCHEGGQSYKIGDTWRRPHETGGYML ECVCLGNGKGEWTCKPIAEKCFDHAAG TSYVVGETWEKPYQGWMMVDCTCLGE GSGRITCTSRNRCNDQDPRASYRIGDPW SNKVHRGNLLQCICTGNARGEWK CERH TSVQTSS
4098	12149	A	5029	1	389	
4099	12150	A	503	318	449	ERKKKKMATVQKGM/PHKYYHGKTGS YNVIQHAVGNAV TNRTGS
4100	12151	A	5030	2	554	ADALGRPTRPASQSRCTRSQSVGPSFG GGHRGE/SGRAYVWQPPYGSSE/HASGL RYWSRRLRPAAGSFAAVCSRVSASKTPV GFIGLGNMGNPMAKNLMKHGYPLIYD VFPDACEFQDAGEQV VSSPADVAEKA DRIITMLPTSINAIEAYSGANGILKKVKK GSLIDSSTIDPAIVSKELA
4101	12152	A	5031	1	1123	MGNPMAKNLMKHGYPLIYDVFPDACK EFQDAGEQLCPNLDVNHFPVQRLHAAD TPWPISHLLAASVIGCCDIACFSGRVSIS SLCVTISSQADEVRAKENKPIQHPTKIA EMLVVSSPADVAEKADRIITMLPTSINAI EAYSGANGILKKVKKGSLIDSSTIDPAV SKELAKEVEKMGAVFMDAPVSGGVGA ARSGNLTVMVGGVEDEFAAAQELLGC MGSNVVYCGAVGTGQAAKICNNMLLAI SMIGTAEAMNLGIK/S*GFDPKLLAKILN MSS\GRCWSK*HFINPVPGVMDGVPSA N*LFRVDFGTTLHWLKDGLAQDSATST KSPILLGSLAHQIYRMMCAKGYSKKDFS SVFQFLREEET
4102	12153	B	5032	13	441	MEGVEEKKKEVPAPETLKKKRRNFAE LKIKRLRKKFAQKMLRKARRKLIYEKAK HYHKEYRQMYRTEIRMARMARKAGNF YVPAEPKLAFVIRXRGINGVSPKVRKVL QLRLRQIFNGTFVKLNKASINMLRDCR ATYCMG*
4103	12154	A	5033	1	775	RRVPAVPETLKKKRRNFAELKIKRLRK KFAQQMLARKARRKLIYEKAKHYHKEY RQMYRT*NF EWARMGKKKLANFYVPA EPQIWR FVIRIRGNGVSPKGSERFFQL RLRQIFNGNLL*KL NQGFRFNMAEDF*S PYIAMGGTPNLKVS KMN*SYKRWLWAK SNKKRUALVDNALIARSLGKIRHILAW DLIHEIYTVAGKRKF\ EANNFLWPFKLSFS TKVEMKKKTTHFVEGGDAGNR\ EDQIN RLIRRMN
4104	12155	A	5034	193	384	
4105	12156	A	5035	96	1636	ARSPAMAPLRPLLILALLAWVALADQES CKGRCTEGFNVDKKCQRDELCSYYQSC CTDYTAECKPQVTRGDVFTMPED EYTV YERLGEEKNNATVHEQVGGPSLTSDLQA QSKGNPEQTPVLKPEEEAPAEV GASKP EGIDSRPETLHPGRPQPPAEELCSGKPF DAFTDLKNGSLFAFRGQYCYELDEKAV RPGY PKLIRDVWGIEGPIDAAFT RINLF RGRPYLFKG*\QYW/RAFEDGV LGPWYI PRNISWTAFDGHSPGQTWDVAALGLPCP LAYSGRERVYFFQRGKQYW/ESYQFPG TSPVQEECEGSSLASAVFEHFAMMQRDS WEDIFELLFWGAERSGWVTRIQPFHL AGEWHGVPGQVD\AAMG\GRILHLQG MATRPLLWPKK\RFRRNRKGYRS\Q R\AHSRGR*PETPRRP\SRAMWLSFVLP EESNLGA\NNY\DDYRMDLALCLPTCEPI QECFFSFSGDKYYRVNLRTTRVDTVDPP

						YPRSIAQYWLGCPAPGHL
4106	12157	C	5036	1	300	MRSFGQLTLCPRNGTVTGKWRGSHVVG LLTTLNFGDGPDRNKTRTFQATVLGSQM GLKGGAGSVWLQAAGLGLLPASLLWPS LLCHCYVLPAPGVPLV*
4107	12158	A	5037	359	1229	MPQPPTLGQEMTGPSQPWTGKGGLPGP* QLRAKAQEVDShLGRKKIKQQNRKSC
4108	12159	A	5038	2	311	VRWNSAAPLVTSRGAPASARPRGQALP GGSAPSAPHGQLPGRAQPAPVSGPPPTS GLCHFDPAAPWPPGLGLGMLPPHPQDW PAQP*HPPGLGLFFEIFSAS
4109	12160	A	5039	310	415	SQYFGLRRLVDHLRSGVDRDQPGQLGKTP S*PQVIHPPQCPKVLGLQYYHFLFLRRS L/DSVAQAGVQWRDLGSLQRPPPGFTPF SCLSLPSSWDYRRPPRLANFFVFSVETG FTVSARMVVIS*PRDPPASASQSAGDTG VSQAPV
4110	12161	A	504	1	467	DHSSSPAREQNWMEFEDELTEVGFR WVITNSSELKKHVLTOCKEAKNEKRLG ELLTRITSLEKNINDLMELKNTARELHEA YTSINSWINQAEERLSEIEDQLNEIKRED KITEKMKNSTTVRVAASMQLLQGVA EEGPLRLTRSASFSA
4111	12162	A	5040	1	114	ARAEMLIVQYILPRLTHCAIFTILFISLLT *VMLLSS
4112	12163	A	5041	335	477	TPASLKIPVE**NTLLAKMVIS*PRDLPA SASQSAGITGVSHRARC
4113	12164	A	5042	135	804	GIDTILTLNQN*SLKTRQ*FTLIIF/FFFFL RWSLALSPRPDCGLQWRDLGSLQAPLPG FTPFSCLSLPSSWDYRCPPRPANFFCNFF FSRDGGFTVLARMVIS*PQ/CDPPTLAS QRAGVTGLSHCTRLFFF*WMESPSVTQA GIQWHDLGSLQPMPPQFR*FSWLSLPSSQ DYRCMPPCQANFCIFSRDEVSPC*PGWS GSPDLVIHLPWPPKVLGLHA
4114	12165	A	5043	63	361	
4115	12166	A	5044	151	384	
4116	12167	B	5045	385	479	MAGAFRRRFASEVRAQGLESLEHGLRC AGSLRGGQSLPTTMWSPVKVGE*
4117	12168	A	5046	3	698	VFFFFFFSGCTRGPLFESDFHRAPHRGCGQ LAAP*AAGAPQPRAPGETRGPEAPHWR SASGDKPPGQAA*PPALVPGEPSWDS PRGHRCSQATLPRVLAGPLQ*LS*LSL* DPPELRSL*PPL*LRL**SLEPP*PPLDS NRFPP*PRSPPLENPRPRPRPKKPRPP AEPPTYTESVSDDLPAWSTRISVHLQTS HSWPSWASLASSMFFKVTKPNRELWSS
4118	12169	A	5047	138	550	FCCCFTSSEHSLLAYGSCSPRRTEVLCAQ QNPSETQAAPLASIYMWK*PCNSRLKGP GPGLGEGWPESRMTSGVTVPGGTSPGT RAGGSPCPGLSPEALRQ*GAGSGPRVS PGA/PGCGAPAAAYGAASPCPQRCAL

4119	12170	A	5048	2	555	FFFFFGLGAHVALYSNPTFTGLHIVVGKD WPPP*AAGAPQPRAPGETRGPEPAPHWR SASGDKPPGASGCLQLLFQGEVPPGDS*P QRSSLALRPPFPRVLGPGPFQPAKAKQR YSQRPPQGSQALAPP/GPPRKQPQLRKVS G*SGGCDLRLRHRPACGRVCTLAQLEP ATRMGWSYVGQCGL
4120	12171	A	5049	1246	1379	RCLFILSFFTGRRTHTP*PPLPLRTGFPP* PRSPPPSREPTGP/RPRPPREESPGPRQ*PP RVPHGIGLSDDLPAWSYSGS/GRPSTGLPI /PWPSWHP*RRQCSQR*QTQIPEISGSPCL SQPPLQRSVRTLRPPAPATA/PLVSKLSPP TKSLPSSDAMRPLSRAGP*RKQEDSAPQ/ DPEPPRNRGPGN
4121	12172	A	505	1	1140	
4122	12173	A	5050	207	251	
4123	12174	A	5051	335	419	TFDFPNWRSYFMSNWTSLPTLLSSWD/ YRHVPLYPKICIFSRDRVLPYWP*SHD FTLFVSMITLTLQIYKMTKLDNYLETIYY
4124	12175	A	5052	68	399	WELLIYFSGHTCSNLSPLLSLSSFFFF*DS LAVSAPGVQ\WHDLCSLRPLPRFKRFW CLSLLSGWD\YRHVP\QYPAKICIFSRDRV LPILAKASRNVSFLTLNMLGGFS
4125	12176	A	5053	2	322	AAAAFFFF*DGACSVTRLECSGTITAHCN FRHLGSSNFPASTSRVVEITGTCHHT*LIF VFLVETGFHHVGQAGLELLT*VIHPPQS TKVLGLQVVSHCTRPLSDF
4126	12177	A	5054	16	357	TITIGQNFFFFFLEMGSCSVARLECSGIS AHCNKLKLGSSNLPTSTS*VAGTTGVCA TIPSYFYNKISM*NQSLPMLPSLGLELLG LRPVFLPRPPKVLGITRHEPPHSALK
4127	12178	A	5055	2	346	LRWSL/DSVAQGGVQWHDGSLQPPPPG FKRLSGLSLMSSWDYRRPPRLANFLHF **RRSFTMLARMVLIS*PHDPPASASQSA GITGVSDHAQSQIFLKLQMTKSMGFKTK FLN
4128	12179	A	5056	3	401	FFFWRQSLTLVTQAGVQ*LDHGSLOPPL PGPKGFSHLSPPSSWDHKHAPPHLANFF L*RHGFTM/RLVLTSLPQ/CDPPAAASQS AGITGVSHCAQPVIFCKKLDSSSTDIFTPS NLQPRGFWDLTAPQGEIVST
4129	12180	A	5057	142	250	PPTGSLLTPPLWDPQFASLFNGTL*WERE *PLPQNV
4130	12181	A	5058	2	775	RCNSAQQQMTSSQKALMLELKSLOEEP VEGFRITLVDESILYNWEVAIFGPPNTLY EGGYFKAHIKFPIDYPSPPTFRFLTKM WHPNIYEEWEMYGISILHPPVDDPQSGE LPSEWNPQTQCEGLILLRC*SHWLN QHLSPPQMSDASVMFRKWERQ*REKTK EYGLKFIRETKFSAT*GPKAGKGWGV SPTNPGREYCIKTEVPARNDEQVQSLLYD ELGMMTDIDDER*GRRKDADICYDDDEF WGMRK
4131	12182	A	5059	1	571	ALGKAGYID/KYVTAMGIVAFVFFRSRK YNLDFRSRNDP/ARHI/TPEQLVALYKSF REKH*VFPD*GLVQRTLSLVFLVCLKN/ SFDCCDDREVWKKFTANACLQEAGNDLT VNLRHIAEAVDENS CNFLQLTVD*IAACK LIQSNW*GIMVSHYSLT*NTFIAILVKHCT G*/INTGAPC*SEPLARYKELSF
4132	12183	A	506	1	2640	
4133	12184	A	5060	32	534	GRERPLSPYMETLYRVPFLVLECPNLK LKKPPWLHMPSAMTVYALVVVSYFLIT GGIYDVIVEPPSVGSMTEHGHQRPVAF LGLQSKMDNNGKGLCIQAS*FTMGGF RFS*ILDPIECTKYPKTSINDSFFCSIGISSV VLEFFPWARSNSMRNGNCPGLI

4134	12185	A	5061	1	328	FLKRQRFGLVAQAGL*WHNLGSLQPLPP GFK*FSCLSLLSSWDYRHLPPHPNFFLLF LVETGFYHFGQAGLKLTDSDGDPALAS QSAGIIGVSHRAGPGLCTFSNHI
4135	12186	A	5062	2	687	GRVGFNVWRDRNDTNLIPNGSSITVNQT NKRDIYVSKYINYIFNDSVKAVYEEFRRG FYKMCDEDIKLFHPEELKDVMLGNTD YDWENIEKNARYEPGYNSSHTIVMFW KAFHKLTLLEKKKFLVLTGTDRLOMK DLNNMKITFCCPESWNERDPIRALTC/YP VSLPSPKYSYNGNS*KKRFKKPINNR GIWLTSLPCPNLILLLSLLLLLLFLY FVLF
4136	12187	A	5063	1	525	ISHDAIAQESKRYWQNLEANVPGAQVLG NQIMPGFLNMKIKFVCRPQCPEKRSKSIE PDKNRKYCSAKARHSWTKDRRAMRV MSY*RRKWMNIRPLTKQMPLQFDLC NHASGKKCYVGNCSFAHSPEEREVWT YMKENGIQDMEQFYELWLKSQKNEKSE DIASQSNKEN
4137	12188	A	5064	735	1517	SYSYFFIQLCNHIASGKKCYVGNCSFA HSPEEREVWTYMKENGIQDMEQFYELW AQESKK*KK*RHRPVSPNKGKVENQIH MANRIMAGRLQWDFSLAGMCGGKTGN SEKQWQGHISSEKHKEKVHTEITDQYC WQHRFPTGYFSICDRYMNGH/AAQEGNS CK/CLHMGNARTFMEWGRKGRRPLKV EASTKHKRDLHIGPKDNDFGKYSLFK DLN*YAGFYGMIPNQSIDQKNLKCSEAH SRGAARFPACIGVYRSS
4138	12189	A	5065	237	381	LHQPTTQTLAFTSNLRGR*RSAALPDAL DSSKVSEMHRFLKRRGVN
4139	12190	A	5066	1	876	
4140	12191	A	5067	1	78	
4141	12192	A	5068	155	417	
4142	12193	B	5069	40	411	MQVTGVRTDSGALNITIHKLASSPHSKPF PIFQATFIFSDHIRCIAEQRLAKGRIPGKA HEDAENSCPPWTSQSSPPLKSWGLDAP PPPLSTCLSASTTRGAGAAATPQCSAPCL HRWTRCQ*
4143	12194	A	507	1	714	
4144	12195	A	5070	1	987	
4145	12196	A	5071	111	2187	DERRVGAADMFGRSRSWVGGGHGKTS RNIHSLDHLKYLHVLTKNNTTVTEQNRN LLVETIRSITEILWGDQNDSSVDFLEK NMFVFFLNILRQKSGRYVCVQLLQTLNI LFENISHETSLYYLLSNYVNSIIVHKFDF SDEEIMAYYISFLKTLCLKLNNHTVHFFY NEHTNDFALYTEAKFFNHPESMVRIAV RTITLNVYKVDNQAMLHYIRDKTAVPYF SNLVWFIGSHVIELDDCVQTDDEHRNRG KLSDLVAEHLDDLHYLNDILIINCEFLND VLTDLHLLNRLFLPLYVYSLENQDKVFLII HHAPLVNSLAEVILNGDLSEMYAKTEQD IQRSSVLPTLSSLWQGSLSLNLQSLGLH KCSSHLGAAQAADSVTGEIPAIRSLEW LISAGSKARTFFFLKMLIGFWEKVDCEY QRRQVLSTRLQEALPSNRLTDVAHVHSS CMLGFGSTAPRGSWIGDPAVHLPLPGE LAEHLGSKGTTTVTKHQPQAKPSIRCFIK PTETLERSLEMNKHKGKRRVQKRPNYK NVGEEDEEKGPTEDAQEDAEEKAKGTE GGSKGIKTSGESEIEMVIMERSKLSLA ASTSVQEONTTDEEKSAATCSESTQWS RPFLDMVYHALDSPDDDYHALFVLCCL YAMSHNK/GKSPEKEGLSGTQSHPGKA GTFGKEGAERKRAQV

4146	12197	A	5072	2	2774	RNLLVETIRSITEILIWGDQNDSSVDFFL EKNMFVFFLNILRQKSGRYVCVQLLQTL NILFENISHETSLYYLLSNVNSIIVHKF DFSDEEMAYYISFLKTLCLKNNHTVHF FYNEHTNDFALYTEAIKFFNHPESMVRIA VRTITLNVYKVS LDNQA MLHYIRDKTAV PYFSNLVWFIGSHVIELDDCVQTDDEHR NRGKLSDLVAEHL DHLHYLNDILINCEP LNDVLT D HLLNRLFLPLYVYSLEN
4147	12198	A	5073	2	1802	
4148	12199	A	5074	546	802	GQAGRARQVRSVPSSALITLPPLA*QKH G/ISR WV VIGDENY GEGS'SREHAALPR HLGGRAITKSFARIHGELESVPRPSSSH
4149	12200	A	5075	3	2380	SLSVHKMAPYSLVTRLQKALGVRQYH VASVLCQRAKVAMTHFEPNEYIHYDLLE KNINIVRKRLNRPLTLSEKIVYGHLDPA SQEIERGKSYLR LRPDRVAMQDATAQM AMLQFISSGLSKVAVPSTIHC DLIEAQV GDEKDL RRAKDINQEVYNFLATAGDKY GVGFWS PGSGIIHQILENYAYPGVLLIGT DSHTPNGGGLGGICIGVGGADAVDVMA GIPWELKCPKVIGVKLTGSLSGWTSPKD VILKVAGILTVKGGTGAIVEYHGPVDS MSCTGMATICNMGAIEGATTSVFPYNHR MKKYLSKTGREDIANLADEFKDLVPDP GCHYDQLIEINLSELKPHINGPFTDLAH PVAEVGKVAEKEGWPLDIRVGLIGSCTN SSYEDMGRSAAVAKQALAHGLKCKSQF TITPGSEQIRATIERDGYRQILRDLGGIVL ANACGPCIGQWDRKDIKKGEKNTIVTSY NRNFTGRNDANPETHAFVTSPEIVTALAI AGTLKFNPETNYLTGTDGKKFRLEAPDA DELPKGEFDPGQD TYQHPPKDSSGQHVD VSPTSQRLQLLEPFDKWDGKDLEDLQILI KVKGKCTTDHISAAGPWLFKRGHLDNIS NNLLIGAINIENGKANSVGINAVTQEFGP VPD TARYYKKHGIRWV VIGDENY GEGS SREHAALPRHLGGRAITKSFARDPRD EPGRKQGLLPFGPFADPADYNKIHPVD KLTIQGLKDFTPG/RSPLKCIKHPNGTQ ETILLNHTFNETQIEWFRAGSALQOK*RN LQQ
4150	12201	A	5076	3	203	
4151	12202	A	5077	52	393	EASAWPAPRGSWMVVAEDPACSVTLCP ESLSGYLPGGSGQGSPAAGTSPSLPPRS LPGLEKL RSPSGRESRLSSSAPRAPSISAK AQLQCQAEEDPEIVNNV*FSSVTCLSL
4152	12203	C	5078	121	396	MALPGRLP HRKL AGGTLEAPWPGIPSGA VRRHQQPPTTLXXWLGVKKPLRKRIE AKFLCAEGPEHIRQGSAAVPGGGGRSRN CEQCLI**
4153	12204	A	5079	3	755	FVVDFDRPHETRVLQVSCGRAHSLVLT REGVFSMGNNSYGQCGRKV VENEIYSES HTVHRMHD FDGQVDQVACGQDHSFLT DKGKVYSCGWGADGQTGLGHYNITSSP TKLGGDLAGVNVIVATYGDCCLA VSA DGDIFGWGNLEYLQLA/APVTDSTQVN VPRCLHFSGVGKVRQ/CLHAVARAVQC* TGEHVFVWGYGILGK/GPNLSGKCPSL KMIPPTLFGFDGFQPRNPFPAPFCGIQA TLLH
4154	12205	B	508	1	546	MKQPNRKRKLNMDSKERLDQDGRVLK MSFFVFCVVSSESEHEETQDLMCSELF WVLLHMWSLDQQHQHLEDHNSSPAR GQHWMESEDELTEVGFRRWVITNSSEL KEHALTQCKEAKNLEKRLDKLLTRIISLE KNINELMELKSTARELREAYTSINSQIDQ VEKGYQRLKINLMK*

4155	12206	A	5082	7	279	GQV CIAETGVQWYHLSSQLPLPGFKRF LCSASRRAPPCPANF*FLVEMGFHHVG QAGLQLLTLDGPPTSASQSAGITGVSHH ALPAWL
4156	12207	A	5083	5164	5586	FTAALNSWVIKLSSCFSLLSSWDCMYMP PCPASFFFFFLR*SFALVAQAGVQWCDL GSLPPPSGFERFSCGLPSSWDYRRPP/P TPG*FFFFVFLVEMGFHYVGQAGLELLT SSDLPTSASQSAGITGVSHHALPSLYK
4157	12208	A	5084	2	5438	
4158	12209	A	5085	1	4294	WAVFDGNYYYLPPWAHTKPVVTLTSY WEDISHRLDAVNALLAMAERLQTNIEAL KSGIQGKIPANQLAELWLKLIDEVIEDTR YTLPLTEGKANVTVLDTQIRKLRSRSLSQ IHEAAVRMRSEATDVKSTLAEIEDWLDK LMQLTEEPQNSMPDIIIWMIRGEKRLAY ARIPAHQVLYSTGENASGKYCGKTQTI FLKYPQEKNNGPVPVELRVNIWGLLSA VEKKFNSFAEGTFTVFAEMYENQALMF GKWG
4159	12210	A	5086	444	797	FHSLSPGASKPMLEPGLDWEPCCKLNDV KRAKSVPLTRHLH*VYLLMLSPPPTPQ QAPVYDVPLPVSKCSHCQFLWF*FAFL* WPVMMSVFSCVCWLHKCLLLRSVCSTP LPTF
4160	12211	A	5087	489	611	SPCPCLCPEWYCLGFLGFLWFLV*HLSL *SILNYFLYKV
4161	12212	A	5088	1	336	
4162	12213	A	5089	1	1581	
4163	12214	A	509	1	732	
4164	12215	A	5090	235	583	
4165	12216	A	5091	1	430	MGKDFMTKTPKAMATKAKIDKWDVIKL KSFCTAKETTIRVNRQPTWEKFFATYSS DKGLISRIHKELTQIYKKKTNNPIKKWAK DMNRHFSKEDIYAANKHMEKCPSSLAJK EMQIKTTMRYHLMPPVRMAIKKSGKNR WELNNENTWTQEGEHTLGPVVGWVK GGGKALGDTPNVDELMAFSTTRPTFFP RSDPTTTRPMAVPPHEEKDDHLETHRPL RPRITLPHAPDGRWLLTLTHTSTPGKT GLRTYRCLSRTEKVQTAGARPSHPHSS AAFTTWAKGPTGRRPGHMRSESATQKE VTMSPTALRGQKADSKAHGQOGTWA ARGMHTESGTCKASRGFPSLLSPRTRIPK VFVAERKGLRGFVLSLTLFSCIQKHWE QTVPMSPLEVDVSE*TGNLQNGRNFLQP THLTGK*YPESTKNSHKFTRKKQTTPSKS GQRI*TDTSQKKTQMPTNTWKNAAHHH WPSKKCKSKPQ*DTT*QLEWQSLKSQE KTGGN
4166	12217	A	5092	65	163	LEASKFSLVPTGPSV*CSPPCVHVFSLFNS HL
4167	12218	A	5093	175	495	PQFFGNVLGHLLYSFLGPFQCDENIRYLS *CSPSSCPCTNRPOYVMFSLCPCVLMV QLPPMSENMWCLVFCSCDSLRRMMVSS FIHVYPYRFCYCNLVVYFEVRCH
4168	12219	A	5094	67	351	LHTRKSVFNCVKLFLHCISVLIQNYDR PWCVMFPTLCPSVFIVQFPMSSENMWCL VFCPCDTLLRMMVSSFIHVPPERHKS KH HDTRG*CSNM
4169	12220	A	5095	2	431	QVFGSIVRIHQGEWFPLLYGILLPRVQNC LTN*LDLCWSQHQTPhVLTHRWELNNE NTWTQEGEHTLGPVVGWGEGGGIALG DIPNVNDKLMGAAHQHDFLVSPKITGIV LSISQVRVPFIDHRRKARYSADLTSFLIAI PG
4170	12221	A	5096	75	173	

4171	12222	A	5097	1	2349	MLED RDGE EDEGDE DR L D N A V R G P G P K G P V G T V S E A Q L A R R L T K V K N S R R M L S N K P Q D F Q V A T A W R S A S L F N L Y I A H L L A I A V M F Q W T Y S N G Q W L N R P A L N D F I P T A A L G L Y N P T P V P I L G M T L G G S T Q L V A P G I A Q S C P G L V L A I L I G E G N E A T P E D P K D P T C W E R L G N H P P S V L Q I R V R V I E G R Q L S G N N I R P V V K V H V C G Q T H R T R I K R G N N P F F D E V L W L Q P G D H T P A S Y S R A G L N D Y H N C C K N K M Q G V V L T H K W E L N N E N T W T Q D G E H H T L G P V V G L W P Q C L D P E G F G E E T W A S T Q P F A G V T C K A L Y L L H F T P A I G S H C L D H C F S D F L G I K N Y R K E K V G L R D L G I C R R P G E G R L G K H I L R N V L G D D A E A E L I G T A T V A L K D L T G D Q S R S L P Y K L I S L L N E K G Q D T G I Y N C E L E N V A E F E G L T D F S D T F K L Y R G K S D E N E D P S V V G E F K G K L Q M W V D V F P K S L G P P G P P F N I T P R K A K K Y Y L R V I I W N T K D V I L A E K S I T G E E M S D I Y V K G W I P G N E E N K Q K T D V H Y R S L D G E G N F N W R F V F P D Y L P A E Q L C I V A K K E H F W S I D Q T E F R I P P R L I Q I W D N D K F S L D D Y L G F P R N L T L R H T I H F L Q K S P G G N C / R G L D M I S G T F K A M N P L K A K T A F L F E Q K F M N * W W P C Y A E K D G A R V M A G K V E M T L E I L N E K E A D E R P A G K G R D E P N M N P K L D L P N R P E T S F L W F T N P C K T M K F I V W R G F W W V I I G L L F L L L L F V G R A P L T L L P N Y F V Q W K I V K P N V L T K G K G F I S R V I Q Q
4172	12223	A	5098	1	296	R R S A P S T S L R T T C V S S C C W P R R R A P S M T P G A G Y P S G S S A G P / P T H S P * P P W T R P S / S A Q R Y L R K * Q P Q P G P P A L L P L L P A P F K A W L S G L G P V V L D S P G P Q
4173	12224	A	5099	26	253	R W L S P W P L / S C P Q P G W T A R N P Q P T R E L P P H P Q A G K P F L P V P V P F Q P T S P S L L P V M G G L S R P G S F S P V S V A S L R C C T H
4174	12225	A	51	702	1107	L Q E R Y S D P G L L A S F H G E S S Q D R L D T V Q Q E K * N A G S A S P P G P P H P N T C Q P R D G R G F T R L P C H R M W G T P G I R W K M P L Q * A A G P P H A A * W P G S L M P P C L * P S A S A W T R Q Q * P G S L P T L T S P G * D P G A H I L L W R K Q S Y
4175	12226	A	510	2	1601	
4176	12227	A	5100	274	2462	R R S A P S T S L R T T C V S S C C W P R R R A P S M T P G A G Y P S G S S A A H R C D G W A T T H S P * P P W T R P S W R S A Y L R K * Q P Q P G P T Q H C C P L P S Q P P A K G V A V R A G P C S A G L S R A T I G T G Q G / P G / T S P G H T W G Q Q R Y H E A T F W G * L L D C L V F K S E K P R * L I L L I T M F * S T S V S L T M L S L D * A R G R R E P A H P T P G P S P A A T N * P G A L L P T V Q I S * K C S S L Q A P E R A S P P C S P R / P P A T A S F R P S L S D P G P S / A P S F G K P S P H L K P N S N I F I L P Y Q L L S H L * V A Q S M A T P C P Q P G W T A R N P Q P T R E L P P H P Q A G K P L L P V P V P F Q P T S P S L L P V M G G L S R P G S S L P S Q W L L * G A V H A R * P V P F S I L P R G T E L T W T P S A K G P M G W A A G L A A S G G C L H S S R * P T L V F R G W W E H I P V P L P H N R C G D S P G R P * Q G S S M V V R D S G E L * G L G D P G L P G F E N K P C C P F * A E I L K W N A R L A R N A V L T Q N A P S P C P Y W T W P C L M P S K D P Y E A Y P P Y V L R E A E C P L Q A V M G P E A P P A W P C S P V G / S V T V F P / T S V S R S P P P K K L T H C E * P W A S / S P N L L V P Q F P H L E K M G P P L A S S R A A H A P F S P / S P H P A L G R L M P L P Q W A L W E P T G S P A L T P P E A S E A C V M S Q L S S R * G P R V L C W W G W G M P S F L Y L F H R K S P A G A E M Q S G L G L P S P * P V L L * G P E A G P G P V A A E P P S Q E V K L V P S G R L P V R G L S P S F Q S N S R R G L Q S P V R Q T G P F P K V K P C V

4177	12228	A	5101	1	545	DFPRQSS*NLNITGKCGISP/GTPLNA\AHF VPGQY/VDVTTKTMCKGFQGVMMKRWG LKAQPIATHGQSKSTGRPGAIVATGDIGR VWPGTKMPGKWGNIRQYGLKVWRI NTKPPINIVKWSGPGP*KWLR*RSKDFK LPA\FKDLGKNLPIPIYIFFLEGDEGGTAQ KIGMDEKRVSSPGAPSN
4178	12229	A	5102	2	202	LFGYLPK*VDNMSTKKPCTWIFTLALCIT ARTWKQPRCPLVGKWI/QLCCT*KMYY SDFKKSCQAMK
4179	12230	A	5103	1	422	FFFFFLRWSFTLVA*A*VQWRDLNSLQPP PPRFKRFSCSLPSSWDYRRASPCSANFL DF/HFLVETRFFHVCQAGLELLMSGDLP ASASQSAGIIGVSHCARPLASFLIHIFNK CISGVRLCSRWPWRYSAQAQSLDLAY
4180	12231	A	5104	2	375	DGSCFVAQTGVQVWHNLGSLQPLPPRFK* FSCSLPSSWDLRQVPPPHANF*FLV*P GFHDVGQAGLELLTSGDPPTLATRSVGIT GVSHCARPGSIYKQRLDKKLRSVAART NRCPLWSLPI
4181	12232	A	5105	1	293	RRLFFSFLRQSLVLVIQAGVQWGDLSL RPLPAGFKRFSCSLPSG*DYRHGPPRLA NFWIFTREGM/FAMLARLVSNS*PQGDPP ASASQSSGDYRA
4182	12233	A	5106	3	305	ETETCSVAQAGVQWPILSSLQPLPPRLKR FSCSLNSWDYRCLPPHAANF*FLVET GFPHVGQSGLKLLTSGDLPTSGSQAIGT GVSHCTWAGKSYIF
4183	12234	A	5107	1	485	ARRDAAEVFLVSDPSGRMVKFSLQRLN SHCFAREKEGDKPSATIHASRTMPLLSLH SRGGSSE/SDDRLNVTEELTSNDKTRIL NVQSRLTDAKRINWRTVLSGGSLEYIEIPG GALPEGSKDSFAVLLEFAEEQLRADHVF CFHKNREDRAALLRTFSFL
4184	12235	A	5108	1	506	FGVSVYLHDYNMRTNPGEMSESTVPTH PADKGWPQGPDAQPRGGPTPPPLPKTSL RTCRPMKQASGLLGTGCPGLTISKPKK LKVRSKAAAGEKPSEPLPTRTPRPHPPP QGDRAACGLRMKGRRRHPHAPYCRRYGS PTSVLAVLVEANEDMVGSQLLSELQEN WQAVLAPLQRAARDLDVEAAATQHCS PMWRTVLSGGSLEYIEIPGGALPEGSKDS LPVLLEFAEEQLRADHVFICFHKNREDR GR*PVSPAVGCVGVPAPPLHSQAGTVS LRGWGVVAGGSGRQGF*RLPRVAALLR TFSFLGFEIVRPGHPLVPKRPDACFMAY TFERESSGEEEE
4185	12236	A	5109	1	996	MVKSSLQRLNSHCFAREKEGDKPSATH ASRTMPLLSLHSGGSSESESVWMARD APGEAAH/CRRHPG/PSPRGPPGSWGWR TPTARQRPKTPAASREDASRFRGRGCQ LRLWGS/HAGSRSSFPDCVPRGGRRSAP DREDDRLNVNRGN*RSNRQDGGFFNVQ SRLTEAQ TALNWRNNC*SGGSLEFNKPA GRRWPPEGSKGQLLQFLLEFAE/EKQLR ADHVFI\CSHKNREDRSLAPKLSAFLG LKILRPGHPLVPKETPDACFMALQRSRE SLPGESEEVGARLRGWAIPPPWGHFVS RVGRNRRLAHLAWVCPHVIVQINAH S Q
4186	12237	A	511	1374	2220	QAENSHININKDVHSETPSEGHQKRKP KDHSSSPAREQNWMEFDELTEVGFR RWVITNSSELKKHVLTQCKEAKNLEKRL GELLTRITSLEKNINDLMELKNTARELHE AYTSINSWINQAEERLSEIEDQLNEIKRE DKITEKMKNSTTVLVSTWGSQLEQNNLP HIISPLFHSTHDLNISFYGGCLLQACSSKL LQGLAEGGPLRLTRSASFFAAKLCLTKH FLPTMILIKSRKTPDTQPRRLYLLQGV

						VDQTSRKGPALNIRQKTFAAAPPHR
4187	12238	A	5110	1	125	FFFEMESHSVIRLECSGVNSAYCNL/TLP GSSGSPASAPPPQVGTTGTHHHAQLIFV FLVETGFHHVGQDGLDLL/NLVIRPPQPP KVLG*QAVLLPQHRPPK
4188	12239	A	5111	2	280	FFFFGDRVPLHSAAQAGVKWCNLGSLQ PPAP/GLKPFSLSLPSS*DYRSLPPCPTHF CIFSRDEVSPSWPGWSPTPDLNMHPPRPP KVLGIQV
4189	12240	A	5112	2	291	FLEMESHVAQAGVQWRDLGSLQPPPP GFKRFSCLSFPSWDYRRPQPRPA/NFFV FLVETGF/TILARLVNS*PRDPPASASQS AGITGVTYRARP
4190	12241	A	5113	3	690	FFFFFLRQSL/DSVTQAEVQW/RRILGSLR P/LQLPGLK*CCCLSLSS*DYSYNPLPRL ANFF/VFCIF**RRGFTMLARLLSNS*PCD LPTSASQSAGITGVSH/HAPGLASPSLNN KVQSSVGAQRRHDEDNGSRA*VFFCFFF FKRFALVA*AGVQWRDLSSLQPLPLRFM *FSCLSLPSS*DHRCVPPHPANFFVFI*RD. GVSPCQPG*SRSPDLAIRPPRPPKVLGLQ A
4191	12242	A	5114	3	282	FFFETESHLSILSPRLECNGTISAHCNLR PGPRDCPASAS*VAGITGVCHHAWLIFVF LVETGFHHVGQAGLELL/NLVIRLPQPPK VLGLQA
4192	12243	A	5115	3	198	LSLNWCILYIYICIYVV/CVVLFCCHSCLS NMGT*FFLAGLLLFRICLCLFIFYFLL***L LFIMI
4193	12244	A	5116	1	854	MNKLFSILLGEKVDTPQNVLHNDPHARH SDDNGQNHLEGQMNFNADSSQFKDENT DIAEKLEEKVRILCWVMTGPQANLEKKA KHVKATWAQRCNKVLFMSSEENKDFPA VGLKTKEGRDQLYWKTIFQYVHEHY L*DADWFLKADDDTYVILDNLRWLLSK YDPEEPIYFGRRFKPYVKQGYMSGGAG YVLTREPLKRFDALKTVKCTHSSSIED LALGRCEIMNVEAGDSRDTIGKGNFFH PFV\PEVHHFNLKGYLPRTFWYWNYY P\PEVGPGLL
4194	12245	A	5117	13	290	ECRRQRGVQ*CNHS*QQL*PPGLMQSSL LSSPGSSDYRQVLLHSAEF*VFNLVEMG SYYVVQAGLKFLASSDPFALTSQWARIT GMSHITRA
4195	12246	A	5118	1	595	MGIHHVGQASLELLTSGDLPASASQGRG VRLYYNEGRSSQSASVTALFLSSLPTVTS AMAGTRPPSARSHQTLQACRAQKTKTR MSSI*GTGAKHQASSPGKAPLSTPSPYFW KPSLQTPCSGSRSLWASLPSLAALFLC FWQDAT*RSSTTRSSLPSWPSRSTRALRL STS*PECAPSA*ASSKAGERSTGDRL
4196	12247	A	5119	3	496	FFFLRCSV/NSTAKAGVQCHNLSSLHPLP PGFKQFPFSLPSS*DYGCAPPHANFYIP SRISQAWWRVPVIPATQEARQSFNFVAQ VGVQWHNLSSPAFPAGFK*FSCLSLPTS WDYRHMPPCPDNFCIFSRGGVSPYWPS WSRTLDIMIHIPPPNVLGLQA

4197	12248	B	512	1	765	MLAGQQREFPVGVGSADPALGAAGWP QRPQARDLQLAMPEPPIPSMGSCAAGA SPTSTAPCSKAPSPIDHPRAAECRRRARD WQAAPPAAPVRDPLGEASRAPESVKDV CIYDIMFDGGAGRFAAATLGTISELPAFP EERKSWKPKRQAPGALV*
4198	12249	A	5120	3	329	ETVSHSVAQAGVHWHVGSQQPPSPGS KQFSNLSLPGGWDIRHPPHPANFIFLV ETGSHYVAKADLQLLASNDPPTSASQHA GIIGRSHCTRPIRY*WSNKL*YKIT
4199	12250	A	5121	1	537	ERQSCSVARAGVQWHDLGSPQP/LPPRL KRFS\CLNLLSSWDYRRALPHPG*FLYF* *RQGFTMLVRL/VLNS*PCDPPTSASQSA GITGVSHRARPVLRF*QNYYYFETGSGS AAQAGMQWPIMAMQPQPRLKQASNL SLLSSWDH\GMQPHANTTVCKTERKQV FRMHLLNNTNYREQ
4200	12251	A	5122	1	197	EAGSHSVAHAGEQWCDYGSLOHQPPV LKQFSLSLPSS*DYRCVPPCPANFLILM ISVSIRGSV
4201	12252	A	5123	809	1472	KTLLSCYLSKLWPVDYLRSSRLRRRAA SSFGSWRFALQRTPHTRRLSRSSKAVQ TAFPRRSPSSRHRCGSSSRATTTCRMSFL SSLTTCAQQLAGWVTLKRSIGLRKRSMS LMALKKWPCLMWKKRRSLPRYPQPQRT RGKKRSGSKIMIRRLNGQMGPRTVPAPA MKEVQI/TKLKSKRRSCSHCSKVCDS KS/VQEQGAP*VGGQQPPPRG*SYAWC
4202	12253	A	5124	1	504	DSEPCSVAQAGEQ*RDLSLOPLSLGLK QFSCCLPSSRDYRRPPCLANFCYF*YR WGFTTSARPV*NSWPCDPPTSASQSAGT TGVSHQA/RLLFFKAFKVWSGDSI*CVN EFNIISKISSFPSTSTPQSCPIHMSQIKY K*F*DYP*CSKQAGGISIDTY
4203	12254	A	5125	2	351	KQGIIMTYVLRPPFFFSRWSL/DSVSQAG VQWRVFGSLQAPPPGFLPFCTG/RQPPS PANFFLYFLVETGFLF**RQGFTVLDPMV SIS*PRDPPALASQSAGITGVSPTRQEGH S
4204	12255	A	5126	1	1047	MVSISWPRDLPASASQSAGITGLIGALVL SVGIYAEVER/HEI*NP*KCLPGSSHHHP PGRRHVHGLLHWCAGVPP*QPPELLASL RLSRGYGLVLSWLEPRYEKMISGMYLG EIVRNILIDFTKKGFLFRGQISETLKTRGIF ETKFLSQIESDRLALLQVRAILQQLGLNS TCDDSLVKTVCGVVSRRAAQLCGAGM AAVVDKIRENRGLDRLNVTVGVDGTLTY KLHPHFSRIMHQTVKELSPKCNVSFLLSE DGSKGGAALITAVGRLREASS
4205	12256	A	5127	116	498	YNFALKSELKFNQAIVSLNKFVFFFLR WSLRPVAQAGVQWRDLGSLQ/PPPPGLT PSSCLSLPSSWNRPPPPCPAKSFWM/M* RRGFTVLARMVVIS*PRDLPASASQSAGI TGVSHRTRQEGHS
4206	12257	A	5128	3	490	GIYHTLRTGQEGRSIKQQRLLQRPPLPYF FLFIFPSFLYMIEIKH*LSFYILLFAFNIVS* PFSYFIFFF/RF*DSVLLCGPGWSTVA*S*L TAASTSDQDGSPTSGLPKVTDRCVCGHH T*ANFYIFCGGWGGLTILLRRIPNSWAQG IFPPWPPKVLGLQA
4207	12258	A	5129	423	495	
4208	12259	A	513	594	1300	LGASEPWQPRSQETPKHSWSPSPH/PANQS KEVPENPNYALKCTLVGHTEAVSSVKFS PN/CENGLASSADRLIIHWGAYDGKYEK TLYGHNLEISDVAWSSDSSRLVSASDDK TLKLWDVRSKCLKTLKGHSNYVFCCN FNPPSNLIISGSFDETVKIWEVKTKCLK TLAHS DPVSAVHFNCSGLIVSGSYDGL CBIWDAASGQCKTLVDDDDNBPVSEVKE

						CRIWDAASGQCLKTLVDDDNPPVSFVKF SPNGKYILTAT
4209	12260	C	5130	628	849	MCGSVYSTIWSLIASRREETIRVIVLIQS PNINTRHISKRGLNKGVNQFHKEWNLL KRVCSHSGAEAGIFS*
4210	12261	A	5131	350	412	NFELKLSPYQKKSIVWGAAQVMPVAVG KPSSEWPPGSHMDNSQIRGNPVCIGK*FS CPSLQCSWDYRCMTPCLANLFFFKLEGG FCHVAQTSCLKLLGSSSPFILASRSTGITG MNHHA\RQLLN*SIRE*HSITHRLTHSRE KSCECNLYGKTLSSNFPPTKKKVSTGELP R
4211	12262	A	5132	3	189	HERKAQPAGEGRTHMTKSDSLPSFRVST LPLESHHPDPNTMGGASHRDRALSGTAT VRDTRGIDPAPVHASPTRNR\NEGRHVF KRFPDTLTDRSISIVTDHHSIQIRTLRALS QL*TTPTQTPWAGPATGTGLSRGLPPYG TPEG
4212	12263	A	5133	32	800	FKTIKVRFLCIRVYSLCCKLLTYCDHFH SLDFEECAHKLKMEFPESQTKELCNMI LDCCAQQRTEYKFFGLLAGRFCMLKKE YMESFEGIFKEQYDTHRLETNKLRNVA KMFAHLLYTDSLWVLECIKLESETTTS SSRIFVKIFFQELCEYMGFL*/SLIARLKD GNLAPFF*RI\FPRDDPRITRVAISFFPSIA SGCLTYCPVSALSSIPRLPLVALLPIPIF HHDLLLELFRLPFFYNDTLVLPFV
4213	12264	A	5134	2	706	RCNSAQQMTSSQKALMLEKSLQEEP VEGFRITLVDESOLYNWEVAIFGPPNTLY EGGYFKAHIKFPIDYPYSPPY/TFRFLTKM WHPNIYENGDCISILHPPVDDPQSGEL PSERWNPTQQCEGLILLRC*SHWLNBPQ HLSQPMSDASVMFRKWRDSKGKDKKE YGLKFIRETKFSATKARRQEKGG*RF TTLGGNTCIKTEVPARNDEQVQSLLYDEL GMMTDIDDER*GRRKDAD\CYDD\DDSG E*GSPQPWAGIPASKLRCPNDEQVQSL LYDELGMMTDIDDER
4214	12265	A	5135	7	219	EGV*VSRDW*QWS/DIGSWRHSMTGSGD SLASAF*VSGGTGESHHKQLIAVNMVEM GSHRAGQAGNELSTL
4215	12266	A	5136	2	309	DGVSLLLSPRLQWHNLGLLQPPPP*FKGF SCLSLPGSWDYRHV/PPCLANFVFLVETG FRHVGQTGLELLTSGDPPASASQRAKIT GVSHRTWQKMYFLSQYF
4216	12267	A	5137	1	309	SCLSLSSWDHRRVPAHPANFVFLVETG FHHVSQV/GLELLTSSNPPASASHSAGIT GVNHRAWLPGLNLR*FKMIIRRLRRLK NKFHSTILRKSETSNSCE
4217	12268	A	5138	2	625	TYGEMAKIVDVPTKQLRAPDPIDSMCH FCHNVSPCTRNGCVMEHFVKIKTHQI EDERERREKKLYFGYSLGAHPILNQITIG RMQRATEGRKEELFALYSAHDVTLSPVL SALGLSEARFPRFAARLIFELWQDREKPS *TFIVRILYNGVDVTFHTSFCQDHHKRSS KPMFPLENLVRFVKRDMFLALGGSCIN YYDACHREGF
4218	12269	A	5139	167	688	
4219	12270	A	514	188	478	QRGVLLKTANVLVPEDLGREMRIFFSVK TWKTFTCIFTKGTNIHLFLYFFFETASLS EAQAGALGSLQPPPPGGSSDPASASPI AGITGACHH

4220	12271	A	5140	3	1230	QRDSYAREFTTTVVSCCSAELQT/GEGAT ARNIFLSGFQVVLEDTVLFPEGGGQDD RGTINDISVLRVTRRGEQADHFTQTPLDP GSQVLVRVDWERRFDHMQQHSGQHLIT VAVADHLFKLETTSWEVGRFRSAIELDTP SMTAEQVAAIEQSVNEKIRDRLPVNVRE LSLDDPEVEQVSGRGLPDDHAGPIRVVN IEGVDSNMCCGTHVSNLSDLQVV*VLGT EKGKKNRTNLIFLSGNRVLKWMERSHG TEKALTGLLKCGAEDHVEAVKKLQNST KILQKNNLKSQAQ/RT*AVHIAHSLKEQSR LGRCGHITQEGG*FRVHEYHCQ*RLGQR RPSLFLTCCR*ERWWTLLYWQGHRLRW RPWGPWGLRSWEGKGAGKKGRFQGKA TKLSRRMEAAQALSPGLHQAEC
4221	12272	A	5141	3	306	SRQWTLFADGQHS GPAAPCPGGEV*RTG ALNPKTFQG/LPSAPGPCPVPHGASHP*T PQKLQPGNKSQMKPVKPGFPPSGAGGA WASL*PSSLFPDLQYLL
4222	12273	A	5142	1	306	FFFFFL*QSCSVAQAGVQWYDPGSQKP PPPRFERFSCLNLPSS*DYRRPPSLPAIFV FLVETGFHHIGQDSLKLLASSDLPISASQS AGITGMSHCTWPV
4223	12274	A	5143	81	657	TAEGGGEETKSGELGRSQR TLSQVGATR GTSEEITLIVQMRDAGGSALCSGIGGGEK WSVLGVILKKDDRIVLAYCMGHEIKRGI EDDSKVFFFFFLEMKSCSVVQAGVQWH DLSSLQPALPRYK*FSCLSLPGSWDYRH VLLRLVNF*FLVEIGFHHVVQAGLKLLT SSDLPHSASRSAGITGVSHRARG
4224	12275	A	5144	3	494	ETEDLALSPQAGVHVAR/SLSSLQPPPPG VFKQILCLSLSSWDYRG/PCHPHAKFL AF*VETGVSPSWAR/LFLNS*PRDPPASAS QSAGEPPRWASVCNSVKMLSSAFNWCV CRLHKEKWMRRQKTHTVMIPHSNRCSS RHFSRIPSSIETYNLRLHTLLAGRF
4225	12276	A	5145	3	123	ESGSHSLPKL*CSGAITAHCNLKLGSR DPPTSASGVAGT
4226	12277	A	5146	3	292	RQRL/NSVTHSGVQWRNPGSLQPLPPGF KHFSCLSLSSWDYRHTPQCPAIFVFLV ETGFRHARLVSNS*PHNLPVSASQ/SAWI TGLSHHARPCVSF
4227	12278	A	5147	2	303	FLGWSFTLVVQAGVQWRDLGSPHPLPP GFKQFFCLSLPSS*DYRHAPPHLANFVFL GEMDFLHAWQAGLELLTSGDPPTLASQ SAGITGVRHCSR PVSE
4228	12279	A	5148	2	613	PRVRTYRFGSVGHD TQLCLWDLTEDILF PHQPLSRARTHNTVMNATSPAGSNGNS VTTPGNSVPPPLPRNSLPHSAVSNAGSK SSVMDGAIASGVSKFATLSLHDKRKEAP RERSQSRNHSMGHNF*QEASDKLESS/SP KPKPDPAKTLGTPLCPRMEDVPLLEPLIC KKIAHERLTVLIFLED CIVTACQEGFICT WGRPG
4229	12280	A	5149	2	393	IGFQPQLTEFQVSLQDLEKLSGLVFFPHL DRTSDIRNICSVDTCCKLLDFQEFTLYLST RKIEGARSVLRDKIMDHLKNV*NEPYD YPMRRYYKKLQELTAIDLTSTHISQPSLL SYTTCLISGATPPFT
4230	12281	A	515	355	612	SFSISGSFSASIALVCQLLAVKGSVFEVG GISYCPLNVFLDLQVAPEEDERKKRRR ERNKIAAAKCRNKKKEKTECLQKVSFAF
4231	12282	A	5150	644	962	NASSLAWTVLLKLLVGFGAGQCMGNFF FCWGGAMESPSVAQAGVQWRNLGSLQ PPPPGFKRFSCLSFPSSWDYRHVPPHPAN FICFSRDGVSRCWPGWS*TPDLR

4232	12283	A	5151	3	321	RRCLCAGYFKNVARRSCWRTFCTMDGR GSPVHHPSSALHEQETKLEWIFHEVLV TTKVYARIVCPIRYEWVRDLLPKLHEFN AHGFEQCGPT*SERRCKKEMDK
4233	12284	A	5152	237	602	LLITGRQYSLTFRRFYIHLRNKILNSGLG KPPLKLHFYTEAFFARNPDQMEFHSVAQ AGVQWHDLG*LQPLPAGFKQFFCLRFLS SWDYK\GTPPCLAGFCIFSRDEVSPRWGR WS*TPDLK
4234	12285	C	5153	166	417	
4235	12286	A	5154	282	1112	FLKRENLLKNVCRNKLDLRPNRASPTGS QEWQRHGVQSEVQFVHSLKPGPPADS CRTAA/GDPGGTETADPGHTGLELRFPEP PKPTLPLALSEAPVP/PERGENTGPRSLPS TPMPSWGPLLSSPPRATSPTSPSQAN*PP PPRPSSHPTTVPPTRPQWQPGCCAQPP RPC LH*RGGN*VY*GMQLHQKSVSWPH SQWPQKREGNGSSHEIHPSCPPSGFHGGS PEGRMPTQAGALHSWVPGLSLSHGSGP HPPPRWTATVQAARPRVPLTNL
4236	12287	A	5155	69	734	SRLGRDHVGPGLGGVG/VRR/RENDIGEY EGGRNEAGERHGRGRARLPNGDTYEGS YEFGRHGGQGIYKFKNGAR YIGEYVRN KKHGGQGTFTYPDGSRYEGEWANDLRHG HGVYYYINNDTYTGEWFAHQRHGGQGT LYAETGSKYVGTWVNGQEGTAEIHL NHR YQGKFLNKNPVGP/AKVCI*CWV*T TW*ISFNRYGKRRRGRGGRISNCCSKME SYPNH
4237	12288	A	5156	4	674	GVQRGHFQEAKGSGRCLSSLNVPHPSPP SAGMDPSSPVNPPEEAGGPLAQVPSAAL AQVAPGPVPISSLLEGPTVPSLPF*ERGNSS HKQASGPERGARPPALLGPQEIGSSK/Y PPPGPGSTLGKLLASPRCGPPQVLGWG LRDPTRLEEGPWGSL/GNTPREPSIKCSP* MGRMGAQPLPKAEGAPPPTQLPPTHSPR RILGPLGASPERPPPRVPPGEG
4238	12289	A	5157	3	342	NFFFLRQSF/NSVTQAGVQWRDLGSLQP LP SGFTPFSCLSLLSSWDYRHPPHPANF LYF**RRGFTLLARMVLIS*PHDPPTSASQ SAGITGVSHGAWPKSIFFLNAEVMYY
4239	12290	A	5158	1	251	VCVCGFCFVLETESRSVTQAGLQRHHL SLQPPPPGFGFSCSLSPSSWDYRCPPPR LANF*FLVEMGFHHVGQAGLKL VASSD PPASVSQSAEMTGVS HHALPG*SRSVTQ AGLQRHHLCSLQPPPPGFGFSCSLSPSS WDYRCPPPRLANFCIFSRDGVSPRWSGW SQTRGLK
4240	12291	C	5159	24	362	MGITVFRXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXS*
4241	12292	A	516	3	853	SQARTAQSSLAAARAHPSARAPAVSPR CSPAGQTNPPDPVPTLAAPSGAWSKM MLQHPGQVSASEVSASAI VPCLSPPGSLV FEDFANLTPFVKEELRFAIQNKHLCHRM SSALESVTVSDRPLGV SITKA EVAPEEDE RKKRRRERNKIAAAKCRNKKKEKTEC LQLQY*QSHRPPLWHHQGFSEEEGLHFP KPSAALPSIFLSQLDEPRCVQSEKLES VNAELKAQIEELKNEQHLYMLNLNHRP TCIVRAQNGRTPEDERNLFQIQIKEGTLQ S
4242	12293	A	5160	1	287	FFFF*DIRVSAQSPRLECSGAILAHCNLCL PGSSDSCASTSPVAGITGMCHHTQLIFFV FLVETGVHHVGRAGLELRLQVIHPQP PKVLGLQA

4243	12294	A	5161	1	1672	QTGLQATTKHSGFPVRMDNAVPIVPQAP AAQPLQIQSGVLTQGSCTPLMVATLHPQ VATITPQYAVPFTLSAAGRPAALVEQDC RCTAGVAWKGLKQILLPSNFGQQLAWG *ALHNSVQPTAMIEAMGSGQQLADWR NAHSHGNQYSTIMQQPSLLTNHVTLATA QPLNVGVAHVVRQQQSSSLPSKRKNQIS APVSSKSSLDVLPQVYSLVGSPLRTTS SYNSLVPVQDQHQPIIPDTPSPPVSVITI RSDTDEEEDNKYKPSSSLKPRSNVISYV TVNDSPDSDSSLSPYSTDTLSALRGNSG SVLEGPRVVADGTGTRTIVPPLKTQLG DCTVATQASGLLSNKTTPVASVSGQSSG CCITPTGYRAQRGGTSAAPLNLSONQQ SSAAPTQERSSNPAPRRQQAFAVAPLSQA PYTFQHGSPHSTGHPHLAPAPAHLPQS AHLTYTAAPTSAAALGSTSSIAHLFSPQG SSRHAAA YTHPSTLVHQVPVSVGPSLL TSASVAPAQYQ\QQVATQ\SYIGSFRGST IYTGYPSPKISQYCYL
4244	12295	A	5162	1	111	ELRYKRWPGWKADTPQAQ\TVKWVGV GKSRESMIQLF
4245	12296	A	5163	2	1034	DRAHLVDFDHQAVDGLQEVQRQAQEGK NIGTTKKGIGPTYSSKAARTGLRICDLLS DFDEFSSRFKNLAHQHQSMPFTEIDIEG QLKRLKGFAERIRPMVRDGVYFMYEAL HGPPKKILVEGANAAALLDIDFGTYPFVTS SNCTVGGVCTGLGIPPQNGIDVYGVVKA YTTRVGIGAFPTEQINEIGLLQTRGHEW GVTTGRKRRCG\WLGSMILRYAHMVNG FTALALTKLDIL\DLGEVKVGVSYKLN GK\RIPIYPG*PGRCFKKGRKLKYETLPG WK\ADTTGRPGRWEDLPPQAQ\TYIRFVE NHVGSRSYHYQSFL\SVKWWGVGVQ VQESPMIQLF
4246	12297	A	5164	3	148	LLSSRDHRHVPPHPANFFCRD\RGLAMLP RLALNSWA*AIHPPWPPKVL
4247	12298	A	5165	3	325	YVFSGDLAQILNVSLGIRRLHLADSV GICLAKLRIAPVPPHNESVFNRWRCPYS SCSY\HHLITSHQFQPSELIKYWNHLQHN KHNAACANAA*EKAGMYRHRLH
4248	12299	A	5166	373	950	SRGVFFFLRQSFTLVA*AGVQWCDLGS QLPPRFKQFSCPASLVSWDYRHAPHP ANFFIFLVEDKGFSMLVRLGLELPTSGDL PASASQSPGITGVSHHARP*MILFIFMFSF GRRDGVSVTQAGVQWHDLSLQASPSG FMPFSCSLPSSWDYRHV*PCQANFLYF* *ANLSRVSPCWSGWSRTPNLK
4249	12300	A	5167	2	334	VRHRFTLVPQAGVQ*CSLG*QQSPPWF KQFSCSLPRSWDYRHLPPHPANFFVF/V EKTGFHHVGQAGLELLTSVDPASASQS AGLTGLSHHAQLSFNLSAKKSFTKTRS
4250	12301	A	5168	35	437	
4251	12302	A	5169	1	1845	
4252	12303	A	5170	1	212	
4253	12304	A	5171	371	915	
4254	12305	A	5172	1	2460	
4255	12306	A	5173	1	933	LESMIGIDPGNRGIGHLLCKDELLKASLS LSHARSVLITGFP\THFNHEPPEETDGPP GAVALVAF\LA\GRRSP*SLTREPVLH QKIVEDA\LSKV*RRRSRY*LT\KVDQW KLLRHSCAKIGDPQTLRF\DLVAIERAG RAADGNYYNARKMEHQAL\RLTPFDDL FLASAKKIPGISS\GVGDGNGELGMGKV EA/DEEAHTARGCHRLATWKA\EF\VIAG VSNWGGYALACALYILYSCAVHSQYLR KAVGPSRAPGRFRPGLRPSRRSLRKKKC

						WASWCSTKSGVASRASWAWRWMGCPSTTTPR
4256	12307	A	5177	1	439	
4257	12308	A	5178	1	552	GNEFSILKSPGSVVFRNGNWPPIGERIPD VAALSMGFSVKEDLSWPGLAVGNLFHR PRGYPSWVMVKGSGTKLALTPQAVVIS YPLENRVYVMVGKANSVFEDLSVTLRQ LRNRLFQENSVLSSLPLNSLSRNNEVDLL FLSELQVLHDISSLLSRHKLAKDHSPDL YSLELAGLDEIGKRY
4258	12309	A	5179	3	1111	ILKSPGSVVFRNGNWPPIREARDPPDVA ALSHGLPL*KKDLSWPGLAVGNLFHRP RATVMVNVNGVNKLDLPPAGSGISYPL ENAVPFSLDVANSVHSLFSEETPVVLQ LAPSEERVYVM/VKGRANSVFEDLSVTLR HSRNRLVFKKTLFLSFTPPQILLSRNNEV DLLFLSELQVLHDISSLPSPKHLAARDH SPDLYFTGSWAGLDEIGKALLGEDSEQ FRDASKILVDALQKFADHDVPMVFMVGN PVVELVHCPSHLNTSPPLGKTRDPLRPK QAQEPQQVPYNLA\YKYNFEYSVVFNM VLWIM\VALALA\VIITSYNIWNMDPGYD SIYRMTNQKISEWIECYLWPRIRKRGGF NWLFC
4259	12310	C	518	512	739	MAEHHWAFPIPSXASXGFAXLQPTKATL KKXEGFKXFXKKKKKKKTPEGGAXGTX IXXPXGGAGXNKXPXGXXG*
4260	12311	A	5180	18	594	NVAGTAICSFAPGRRQTPCHTREPQDGR PRARLTAWTRARGTCRVAHTHTGRQNH PMPLWGFSRHHRAFSEHLSLGCAPPSAT WT*TRSPAAAAAGP/PVPRKPNPSPPSRS PAGLRPPGRAGPLTSPRCGPPASQASDT VGPVRHKQRGPTSDVSGAWDGPATAAS GPVVRLYPSTLGGGRGRQITRSADKT
4261	12312	A	5181	68	446	RLTSELAQTLAVHPSKSARPRP*AGEKP GKKPPLQVNGAWD**PRVGADPGHSPD SLDPSTGDVQGGSYSYWEGRTITMPLW GFPDRAGLLGSPGSSGPGKRRPILAGQPY KLLELQARFLGPGH
4262	12313	A	5182	2	512	APPSATWT*TRSPAAAAAGP/PVPRKPNP SPPSRSPAGLRPPGRAGPLTSPRCGPPAS PGIGHCGCRQTQAAWPRRRTYQGRGMG PRPRPRRPVVPVGGERSHSHSPGPPLRSP GPEWGLTSSSCPARG/PGGCLCPQNQLPN PGP/SGPASPNLPSRLHPTDTSGBPFPRA

4263	12314	A	5183	14	720	RNFPDRPTRPRTRGRTRGRTRVRTFGPG PVASAGCSRGDGRFGEAGPTALDSGADS GVRDTLPVHEPGSCLRYRTTPRPSRAH PTPLIRPTSGPRCFGSDGTHSVRCPVNAG RPGHLGLGG/AKSSGFAGQKGRLLAAG TCGVHVQGPLRAARPQEVLIQGGPLQP AAPEQPPATGAWLQPLRCSEKAL*LP* GAP/SQSPPRPMQFITVPASG*NAGGPGA SGGTRVPG*KLPDTGGP/SAQHPLSPTGL PHDARP/PSSCPTGRSCVHCPQLNAVHL* E*PANSELSRPLEDTGP*AAPTRPGSAG PISDPHSVPPSSPSSSGTPALPGHMSS/GG KWYQHQPASACPVLGL/PPDPAEKAGSQ PSPGHLVQAPGHPGPPGHTPAVTPSFPN SRAALPSFSR*PCQSPKPOGSCDPRPPR KPKPWKFQGS*GLPLQKNRPPFSPTG ATPGEPPGAL/PLSGNPPKSHRDGSALPS MSMSHPARPSVLGSKLSGFLPSSWPGPC TF*WMKCGRTRSIRGHSCAWLCAA
4264	12315	A	5184	2	1558	RRSRDSGYRAPASHSRPGQAARAPAPR PARREVCPRPGVPRRARTTRKTPTWAA VATGTRGASAEGGPTGLAHG/SGLAAAA GLMGCEPASGWGPGRQGSAGARTAAAGS SGSSSGSGPSAPTSSSVLGSGLVAPVSPY KPGQTVFPLPPAGMTYPGSLAGAYAGYP PQFLPHGVALDPTKPSGLVGAQLAAAA AGSLGCSKPAGSSPLAGASPPSVMTASL CRDPYCLSYHCASHLAGAAAASASCAH DPAAAAAALKSGYPLVYPTHLGHVHSS LTAAAAAGATPPSLAGHPLYPYGFMLPN DPLP/TSATGCRPTGRATSASPRPKSC*AT /SRHTAFPGTDKLLSGYPSSSSLASAAA AAMACHMHIPTSGATGQPWDAGAAQPP PRGWDAAAATTPTPRA/ALPTPGAPVVP AATGPYYSPYALYGQRLTTASAAGVSV RGGREGERGIGRKRGRGGVQGEAASRT RLLTARGEGLGPRKERNVLPYISYPTAA TETRWDTPLLPTFSTHTQTL
4265	12316	A	5185	6	56	VVAWRGSDSFGLTSKLVQRQVFHHQL LKTVPHQAHFY*LPRAALQQIHRC*LPR/ DTSQVAASLLASKSSSQTSGLSVSKSTSL ASVSQLASKSSSQTSQTSGLSVSKSTSL SVKFSCKLTNEDVKHEATFF/LIRLYKTV AWKLVAVGGFSPNVNHGELLNAAIEAL KATLDVFFVPLKELADLPQNKSSQESIVC ELRCKSVYLTGCGKSKENAKAVASRE ALKLFLKKKVVVKICKRKYRGSEIEDLV LLDEESRPVNLPPALKHPQELL*CVQINIT AYNIWYLKRKTDFCIV*N
4266	12317	B	5186	133	345	RLSERRNWTQAMLYLKGAQGRRYLLR PEPANGPLRPAHCRIDHAPISTYYILRRPE PSYRSSSYFPDDD*

4267	12318	A	5187	2	2168	KESRRTVRRMLRGRSLSVTSLGGLPQWE VEELPVEELLFEVAWEVTNKVGGIYTV IQTKAKTTADEWGENYFLIGPYFEHNMK TQVEQCEPVNDVRRRAVDAMNKHGCQ VHFGRWLIEGSPYVVLFDIGYSAWNLDR WKGDLWEACSVGIPYHDREANDMLIFG SLTAWFLKEVTDHADGKYVVAQFHEW QAGIGLILSRARKLPIATIFTTHATLLGRY LCAANIDFYNHLDKFNIDKEAGERQIYH RYCMERASVHCAHVFTTVSEITAIEAEH MLKRKPDVVTNGLNVKKFSVHEFQN LHAMYKARIQDFVRGHFYGHLDLDFLEK TLFLFIAGRYEFFKTKGADIFLDSLSRLNF LLRMHKS DITVVVFIMPACTNNFNVT LKGGQAVRKQLWDVAHSVKEKFGKKLY DALLRGEIPDLNDILDRDDLTKMRAIFS TQRQSLAPVTTHNMIDDSTDPISTIRRIG LFNNRTDRVKVILHPEFLSSTSPLLPMDY EEFVRGCHLGVPFSYEPWGYTPAECTV MGIPSVTTNLSGFGCFMQEHVADPTAYG IYIVDRRFRSPDDSCNQLTKFLYGFCNMS RRQRFIQNRNTERLSDLLDWRYLGRY YQHAR\HLTLRQSFSKINFHVG*HAPPT DRKDFKYPRPSCSYPPFSFGSSGPSSP QSSDVEDEVEDERYDEEEEAERDLNIK SPFSLSHVPHGKKKLHGEYKN
4268	12319	A	5188	1	1347	
4269	12320	A	5189	1	272	QTEGFKYRRPSSVPPSPSGSQASSQSSD VEDEVEDERYDEEEEAAGFG/RVY*ESPSI LYAVPYSDSCCQVTPSLHCSHFFILFPKT DKSS
4270	12321	A	519	1	760	
4271	12322	A	5191	225	430	
4272	12323	A	5192	16	1420	PSVRRNQRF*SCKDFDYWHN*RKQEGC YT/VLEKKVLSNRKQRF/DGSSGKLTGS TSSLNKL SVQSSGNRRSQSSLLDMGNM SASDL DVADRTKFDKIFEQVLSELEPLCL AEQDFISKFFKHSNIKVCLELWAGSRGP GMGGTITAT*LLGTPLPVSSEKDMIRQM MIKIFRCIEPENNLIALLGDKIDSFNLYM LVKMSSHV* LQQNVDPASFLSTTLGNV LVTVKRNFDKCISNQIRQMEEVKISKKS KVGILPFVAEFEEFAGLAESIFKNAERAG DLDKAYTKLIRGVFVNVEKVANESQKT PRDVVMMENFHHIFATLSRLKISCLEAE KKEAKQKYTDHLQSYVIYSLGQPLEKLN HFFEGVEARVAQGIREEVSYQLAFNK QELRKVIKEYPGKEVKKGLDNLKVD KHLCEEENLLQVWVHSMQDEFIRQYKH FEGLIARCYPGSGVTMEFT
4273	12324	A	5193	2	391	FFFFLRWSLA/SV/TQAGVQWRGLGSWQ RPPPGFKSFCSLLSSWDYRRPPHAQLI FVFLVETSFTMLAGMVIS*PRDPPASAS QSAGITGVSHRARTLLIFKRCSIRDESFE VFLYVYLFKTNILLKA
4274	12325	A	5194	2	302	KTLSQGCPRLEVQWCNLSLQPL/PFPGS K*FCSLSLPGSWDYRSVPPRSANF*FLV ETAFHHVQAGLELSTSGDPPVSASQSA GITGVSHSARQ*RAF
4275	12326	A	5195	2	388	RATPRHIIVRFTKVEMKEKMLRAAREKG RVTLKGKPIRLTADLSAETLQSRREWGP /IFNILKEKNFQPRISYPKVSFISER*IKYF TDKQMLRDFLTSRPAKELLKEALNMER NNRYQPLQNHAKM

4276	12327	A	5196	1	578	VAAKCMHKDAKKGFIRLDMS*FQERHE VAKFIGSPPGYVGHEEGGQLTKKLQCP NAVVLFDDEVDKAHPDVLTIMLQLFDEGR LTDGKGKTIDCKDAIFIMTSNVASDEIAQ HALQLRQEALEMSRNRIENLGDVQISD KITISKNFKENVIRPILKAHFRRDEFLGRI NEIVYFLPFCHSELIQLVNKEC
4277	12328	A	5197	3	1618	
4278	12329	A	5198	495	653	MTLTSIDPVLTTFFNLECP/VFTATASSG LGEVE*AIALN
4279	12330	A	5199	1	1433	MPESNCSLTWRHSVGRAVAAQGGEHSS QGASLVLGEPRGGSSWLLGLEGDTGLW GGLLKEGRLTDGKGKTIDCKDAIFIMTS NVASDEIAQHALQLRQEALEMSRNRIAE NLGDVQISDKITISKNFKENVIRPILKVR GLSWHFLLEPKAHFRRDEFLGRUGEIVY FLPFCHSELIQLVNKELNFWAKRAKQR HNITLLWDREVADVLVDGYNVHYGA RSVKHEVERRVVNQLAAAL*SRLLP/G GCTLRITVEDSDKQLLKSPELSPQAEKR LPKLRLEIIDKDSKTRRLDIRAPLHPEKG RLTDGKGKTIDCKDAIFIMTSNVASDEIA QHALQLRQEALEMSRNRIENLGDVQIS DKITISKNFKENVIRPILKVRGLSWHFLLE PKVLTTFNLSVLYLHGNSIQLGEVNKL AVLPRLRSLTLHGPNMEEEGYRRARG HSLHQGIEKYICESDDIFRKYCNNQFL
4280	12331	A	520	669	823	
4281	12332	A	5200	1823	4712	FFKKNLCASAHYY/TWCVLPFFFFLRRQ L/NSIGQAGVQWCNHSSLQPCPPRLKLSL HLSLPSSWDHRHAPLRMT/NFFKYLRRG LPVLPRLVSNSWAQVVLPS/SASQSIGITD MSH*PAQLPNSLPFFKRQFRSISPLGM Q*CDHSSL*PQTLGLKQFSHQPPFFVQ MGSCYVAPSW*TPKENTTIQHPHMYT LKTTVTFLYTELYSDIA
4282	12333	A	5201	3	298	RQSCSVA*AAVQWRDLSSLQPPPLGFKR FSCLSLLSSWDYRRPPRSVNF*KIFLIET GFHHLGQAGVERLTS DPPPGSASQSAGII GISHCTWPELFK
4283	12334	A	5202	1	422	APMPAATMTARSGPAAISTRCPWRPRSP STPRPSWSGTCCAPTRSLRRAATASQGPS PATNTPSPRAASPP*RVWAPRTETIKGHT AHSRLTGATTGPKLSAP/VATESGHPDSQ KPPTHPGTSD/TILPPETASHPSTRRP*LPP ETASHPSTRRP
4284	12335	A	5203	123	201	KRGFCWVPQVGGQGHDFGLWQSPFPGL RQFSGFFLWKSWDYGHPPPC*ISSSSSSSS S\FSSSSSSSLKLWT*GDPLA*VSQRVGIP GLSHWP*PRLGGRGTILVYGNLHFRD
4285	12336	A	5204	88	167	KINMGILLKL VYRFNINPVKTPAGLFSSS SHE/ITEIDKRILKFIWKCTEHRIAKQSLK RTKLEDLLNFKTYEATEIKTS*YRFNI NPVKTPAGLF
4286	12337	A	5205	179	474	FGFQINVFKDPVADPNKRSKKGRSLHR TPAGNFVTL*GKGDLEEGQDLLHTV *KNGKVTKAYSFDEIRKNAQLNIELEAA RSLGLMDWVCVCM
4287	12338	A	5206	195	351	

4288	12339	A	5207	1	1080	ERCTMPDEPLVRAPDKGTDSPSPPLEET SNGGRMLHESLRHAVPITRMQSSDTEA GAPAYSDDEDYEDIEPRTLNEITTVTDKT SPWSSVISDTSEVISQPDEVQREGPSCPS PGPFCEELMVKSSFLSPERAVNPHLPR QD\SPSQSLVACECEASKARVGGESASA NPQIPCPITLSGAQQSSTFGWSSPQTDQ NKEPKSEAPA\EELKVATS*GSVDSA*LA FKKLPLNLASQSRRENHKGPIDSSDIRQ RQVTTGSETSTKQSLLLPGPIVVPNFFLPP QQLEASLRMLSLSATLPPAATTDQDKSE ATRGAISQRPCRPRPNLPLNLPPEETLR IARIFSSQYSQKD
4289	12340	A	5208	1	1140	AIVEDKHSGRSYDITSDLGNVLTSTSIK TVNG*AESDSDGAESDEEDAQEDLMGA YHSDIDKKMMKIVADHKNLEVIVTNGY DKDGFVHDIQNDIHASSSLNGRSTVHVK PIDENLGQTGKSAVCIHQDINDDHVEDV TGIQHLTSDSDSEVYCDSEQFGQEESE DSFTSNNGPFQYYLGVHSSPPMENSGRF EDIQGPNGNIGNMQVVAVEGKGEVK HGGEDGRNNSGAPVHREKRAGETDEFSN VRRGRGHRMQHLS\EGTKGRQVGSGGD GERWGS DRGSRGSLNEQIALVLMRLQE DMQNVLQRLQKLEMLTALQAKSSTSTL QTAPQPTSQRPSWWPFEMSPGVLTFAI WPFIQWLVLVLYYQRRRRKLN
4290	12341	C	5209	68	331	MLKNVLMRKCGVHDREKFLVLDYFCQS SVLAVLYLILSLCYFPYQDVASECEVKC MPTFQFFKKGQKVGEFSGANKEKLEATI NELV*
4291	12342	A	521	3	108	VCREREPHQKVFNMKMPK*SYRTVPVTPE GIVLSL
4292	12343	A	5210	935	1036	
4293	12344	A	5211	1	3270	MRPKTFPATTYSGNSRQLQEIREGLKQ PSKSSVQGLPAGPNSDTS\DAKVLGSKD ATRQQQMRATPKFGPYQKALREIRYSL LPFANESGTSAAAEVNRQMLQELVNAG CDQEMAGRALKQTGSR\IEAALEYISKM GYLDPRNEQIVRVIKQTS\PGKGLMPTPV TRRPSFEGTGDSFASYHQLSGTPYEGPSF GADGPTALEEMP/PAVRGLPFPRSRPPRA RPPAPAPTQGLRCQRRGSRGTLPAAGRA LR
4294	12345	A	5212	3	274	LERLIFVGGGLQGFPPPKLRFFPKIPQLVF FSPPFRKKIFPCPPRLSLGPPRVLLKGPPS SSSSSSSKKC*PLMFYCHRRWPTGVVYV LP
4295	12346	A	5213	403	776	QGPDPHFS\FWHLLQAPGLSPCLKWATA LETTPSPNGLPIVPVFP\GSSRMAGMIE\SH IIEIGFLPNKEKKKGCCPPLFPRNFGFKF APSGLKVG\YLVKFEPKLNYS\DH\VIKW VR*VGR\SGIY
4296	12347	A	5214	165	439	PPRQAKMQNLAAPGSHSQSPW/TLRPKA L*LTPSQIFSA*RLKTD\TARSPRPSPFQ PVS\ASITVVGIDGQASKPLKTPQLWCQ LRQYSFK
4297	12348	A	5215	2	525	AAED*HCPIASETYKTITELWVTL\PEV KSVPF\INTEATHSTLPSFQGPVSLASITV VGIDSQAYKPLKSSQLWCQLGQYSFMH SFLVIPTCPVLLGQDILTKLSASLTIPGL QPHLIATLFP\SLKPPSHPLVSPHLNPHIW DMSTPSLVTDHAP\TIPLKPNHPYPVQC
4298	12349	A	5216	1	425	PGNEIYR/KGTISFFEIDGRKNKSYSQNL LLAKCFLDHKTLYYDTPFLFYVMTEYD CKGFHIVGYFSKEKESTEDYNVACILTLP PYQR/RGY/GKLLIEFSYELSKVEGKTGTP EKPLSDLGLLSYRSYWSQTINEISEITS

4299	12350	A	5217	25	193	LGGCEDSRRKGAPRCFLSRGDHSWEPRD *PPPWLFPNSNC*LAAGRPSVRRSSPS
4300	12351	A	5218	1	1383	
4301	12352	A	5219	1	1617	MAEVGEIEGCRPLVLRNQDNEDEWPL AEILSVKDISGRKLFYVHYIDFNKRLDEW VTHERLDLKKIQFPKKEAKTPTKNGLPG SRPGSPEREVPASAAQASGKTLPIVQITLR FNLPKEREAIPGGEFDQPLSSSSCLQPNH RSTKRKVEVVSPATVPVSETAPASVFPQN GAARRAVAAQPGRKRSNCLGTDEDSQ DSSDGIPSAPRMTGSLVSDRSHDDIVTR MKNIECIELGRHRLKPWYFSPYPQELTTL PVLYLCEFCLKYGRSLKCLQRHLTKCDL RHPPGNEIYRKGTISFFEIDGRKNKSYSQ NLCLLAKCFLDHKTLTYDTPFLFYVMT EYDCKGFHIVGYFSKEKESTEDYNVACI LTLPPYQRRGYRKLIEFSEVELSKVEG KTGTPEKPLSDLGLLSYRSYWSQITILEIL MGLKSKSGERPQITSNDISEITSIKKEDVI STLQYLNINYYKGQYILTSEDIVDGN ERPMLKRLRLRIDSCLHFSQRTWSQE VDSGDQDTCPHCKCQRPASQDLGAD
4302	12353	A	522	383	542	LWSPPNNSILDTTTAGEPTPEQDLNRERER EKE/REERERERERERERERERERERES
4303	12354	A	5220	890	1537	MLLMFICDLLTLSCSIALGYELSKVEGK TGTPEKPLSDLGLLSYRSYWSQITILEIL GLKSESGERPQITIK*AWRCLPGGTWHG LSVPGLSLSGLLGTDKGPQGT*PVLSHSE ISEITSIKKEDVISTLQYLNINYY/KGREA GRGDRCVGCVRVQSSVG*PPAEPISAAQG QYILTSEDIVDGERAMLKRLRLRIDSKC LHFTPKDWSKRGKW
4304	12355	A	5221	2	434	LRDGVLLCHPGWSTVAQS*LTAALNFWA VRGSSCLSL*LVLRNSPLHPANLFFYFC R/DKHLTILTRLVLNFWAQVILRPWLPKG LGITGMSHCTQPNFKNQRKGYCQVNFN NQTKTLSLAGNTYFTPIFFGNKHVTSY NFPSM
4305	12356	A	5222	3	384	VVAAEVPSFFFFLRTESCFVTQAGLQW HDLGSATSI/SPGSSDSPASASQVAGITGR HHYALA*FFVFLVDMGIHHVGSWSRN SLNLVNLPCLGPPQYWGLQGMSPMPRP LKCPSLKGKMPNSHP
4306	12357	A	5223	2	322	LYFFSFETESCSVTQAGVQ/WWCDLGSL ATPPPGSSNSCASAS*VARITGVHHHAQ LMFVFLVETGFHHFGQSGLKPLSDPPAS ASQSAGINRCEPPGTGHYIFSK

4307	12358	A	5224	1	2535	MQPLDFSSGGSDPNISLSEKIRDQLVVGQ LIPDCYVELEKIILSERKNVPIEFVIDRKR LLQLVRENQLQDENELPHAVHFLNESG VLLHFQDPALQLSDLYFVEPKWLCKIMA QDVSSIFGLYIRDILTVKVEGCPKHPKGII SRRDVEKFLSKKRKFPKNYMSQYFKLLE KFQIALPIGEEYLLVPSSSDHRPVIELPH CENSEIIIRLYEMPYFPMGFW SRLINRLLE ISPYMLSGRGCILLGQVVDHIDSLMEEW FPGLLEIDICGEGETLLKKWALYSFNDGE EHQKILLDDLMMKKAEEGDLLVNPDPRL TIPISQIAPDLILADPPRNIMLNDELEFEQ APEFLDCFVCIHLYPSSDYISRHYMRTI NIVQTGFAKCRWRVTVHGADHGDGSFG SVYRAAYEGEEVAVKIFNKHTSLRLLRQ ELVVLCHLHHPSLISLLAAGIRPRMLVM ELASKGSLDRLLQQDKASLTRTLQHRIA LHVADGLRYLHSAMIYRDLKPHNVLLF TLYPNAAIIAKIADYGIAQ/SLL*NGD*KTI QRGTPGFRAPEVARGNVIYNQADVYSF GLLLYDILTGGRIVEGLKFPNEFDELEIQ GKLDPVKEYGCAPWPMVEKLIKQCLK ENPQERPTSAQVFDILNSAELVCLTRRIL LPKNVIVECMVATHHNSRNASIWLGGC HTDRGQLSFLDLNTEGYTSEEVADSRILC LALVHLPVEKESWIVSGTQSGTLLVINTE DGKKRHTLEKMTDSVTCLYCNSFSKQS KQKNFLLVGTADGKLAIFEDKTVKLG AAPLKILNIGNVSTPLMCLSESTNSTERN VMWGRMWHKDFLLF
4308	12359	A	5225	2	223	LGVAFCFFCFWFVLFVGLQLLSNL EKFQPLCLQIFFLSPCPIRSLY/C*SSKVV SOLTVTLLVFPVFFSL
4309	12360	A	5226	236	1626	LAAAAHPLAGLVGGEAWIGGAKSWLSF SAGSSCMAEMATATRLLGWRVASWRL RPPLAGFVSQRAHSLLPVDDAINGLSEEQ RQLRQTMAKFLQEHLPKAQEIDRSNEF KNLREFWKQLGNLGVLGITAPVQYGGG GLGYLEHVLVMEEISRASGAVGLSYGAH SNLCINQLVRNGNEAQKEKYLPLKISGE YIGALAMSEPNAAGFWMVSMKLKAEKK GNHYILNGNKFWITNGPDADVLIVYAKT DLAAVPAISRGITAFIVEKGMPPGFSTSKK LDKLGMRGSNTCELIFEDCKIPAANILGH ENKGVYVLMSSGLDLERLVLAGGLGLA MQAVLADHTIPYLHVREAFGQKIGHFQ/L MQGKMADMVYTRLHGLFGQYVYNVAK ACDEGHIIPKDCAGVILYAAECATQVAL DGIQCFGGNGYINDFPMGRFLRDAKLYE IGAGTSEVRRLVIGRAFNADFH
4310	12361	A	5227	1	867	MATATRLLGWRVASWRLRPPLAGFVS QRAHSLLPVDDAIKGVLR/ESQRQLRQT MAKFLQENLAPKA\REIDRSNEFKNLRE FWKQLGEPWAVFGASQPLVQYGGFRP GAYLGSMLL*WEEISPSFSGAVGLASYG AHSNLSHQPSLLRNWEFRAQKEKYLPEG *FSGEYIGALAMS\KPHAGSDVVSMLK AEKKGEATLNLGAKMGRGNHYILNGN FWITNGPDADVLIVYAKTDLAAVPAISRG ITAFIVEKGMPPGFSTSKKLDKLGMRGSN TCELIFEDCKIPGK
4311	12362	A	5228	3	391	SHHHPLAAPSLGEAAISRSFQSLACSPGL PAADRLSYSGRPGSRQAGLGRAGDSAV LVLPSPGPRSSRPSMDSEGGSLLLDEDS EVFKMLQENREGRAAPRQSSSFRLQEA LEAEERGCTPAFLASSLSPQSFLARLQG/ GLATPPKLHTCEKCSSTIANQAVRIQEGR YRHPG\CYTCA\DCGLNLKRRGHFWVG DELYCEKHARQRY SAPATLSSRA*APFG

						SCRKPWKLRREVARQPSWPAH
4312	12363	A	5229	2	384	FVHFQSKKTMRKICLFFFFSSETGSRSVS QAGVQ/WARVIAHCNLKLLDSSDLPALA LAS*VARTVGMVHRGLACVYFHQINLIL YFLAQMNLLKKHQTFLEMLNLIASQA GKIYSSNRNIKVFWPQ
4313	12364	A	523	389	549	ERKRPSRKQ/RERNRKNQNERKSRGDW QRANVGAGQKEEMKCLAVELEIGSQPR S
4314	12365	C	5230	301	369	MPTLYNHCFLQLFTIISKLISS*
4315	12366	C	5231	210	329	MWNLCIWRVNCTINNTNMPTLYNHCFL QLFTIISKLISS*
4316	12367	A	5232	2	268	FFFLKRDARVSFCHPGLSAVAQL*LTVAL NS*VKGSSYLSFQS/SWHYRYVLPYLAN FKNFFFKRRELTFLRLILTSAQVSFLL OPPK
4317	12368	A	5233	1	415	LFAGPSAMFYLA AAVSDFYVPVSEMPEH /KIQSSGGPLQITMKMVPKLLSPLVKDW APKAFIISFKLETDPAINRARKALEIYQ HQVVVANILESRQSFVIVTKDSETKLVS THSFYR*QKLK*KALIGSKIVQGS
4318	12369	A	5234	3	705	PVRFLDNFSSGRRGATSAEFLAAGYGV LFLYRARSAPFYAHRFPQTWLSALRPS GPALSGLLSLEAEENALPGFAEALRSYQ EAAAAGTFLAVEFTLADYLHLLQAAA QALNPLGPSAMFYLA AAVSDFYVPVSE MPEHKIQSSGGPLQITMKMVPKLLSPLV KDWAPKAFIISFKLETDPAINRARKAL EIQHQVVVANILESRQSFVIVTKDSET KLLSEEKKK
4319	12370	A	5235	200	636	GPCAMFYLA AAVSDFYVPVSEMPEHKIQ SSGGPLQITMKMVPKLLSPLVKDWAPK AFIISFKLET*PR/LIVINRARKALEIQHQ VVVANILGVKDSPLCLL*PKDSEPKLL SEEEIEKGVEIEEKIVDNLQSRHTAFIGDR N
4320	12371	A	5236	17	424	
4321	12372	A	5237	1	338	SDRQLDC/ALDLMR/RLPPQIGKNLSNLI DLVPSLCEDLSSVDQPLKIARDKVVAK DYLLCDYNRDGDSYRSPWSNKYDPPLE DGAMPSARLRKLQVEACFCHTSLSVLST FP
4322	12373	A	5238	2	160	
4323	12374	B	5239	46	426	MSDQQLDCALDLMRRLPPQIEKNLSDL IDLVPSLCEDLSSVDQPLKIARDKVVGK DYLLCDYNRDGDSYRSPMEVTKYDPSL GRMGNAVKLRAEKSLEVGKANKWPF DQYPKTLLELLDPG*
4324	12375	A	524	1	495	EELVPIFLTLFHKIEKEGTLPNSFYEASITL IPKPGKDITKENYRWISLMNIDAKILNK ILANQIQITKKIHHQVGFIPGMQGW NMHKSINVIHHVNRIKKNHMIISIDAEK AFDKIQHPFMIKTLK/MGIQGTYSVIK AIYDKPTANIKQTFQIQD

4325	12376	A	5240	2	938	PRVR*APGPAAGGRATDAGTGTAATAAT TMSDQHLDLDCALDLKRRRLRPQQIEKNLSD LIDLVPSLCEDLLSSVDQPLKIARDKVVG QDYLLCDYNIDGDSYRSPWSNKDDPPLE DGAMPSARLRK\LEVEANNAFD\QYRDL YF*KVGVSSVYLWDL\HGFGLS/VILH KRKGWEDGIKRRSKGCWDSIHVVEVQ EKSSGRTPHYKLTSTVMLWLQTNKSGS CTMNLGGSLTRQMEKDETVSDCSPQIS/ ATIGRLVEDMENKIRSTLNEIYFGKNKG YRSMGLRSV\QTFADNSKQEALEELTLV GGFERESKQC
4326	12377	A	5241	1	1911	
4327	12378	A	5242	3	803	ESVAAALSPLGIEVDIDVEHGGKRSRLT PVSPEVSAATGEKSSSQSSCCSDPSKPG GNVEGATQSLAEQMRKIALESEGRPEAS LCPFPPTGTTGQPSDLWPAPPPHSQHLCS PTYKPEGAGCWLAVDVCCHLKSWEPA RTL*LLGLCEWPLFPLDPCSLNCTCACVL PDCLPGARAMVRLGLLRVSPVCSW*VLF QEOMESDNCSSGGDDWTHLSSKEVDPS TGELQSLQMPSEGPSSLDPSQEGPTGLK EAALYPHLPPGK
4328	12379	A	5243	2	1511	RGGCDRDGPFSASSPLAMASLTVKAYLL GKEDAAREIRRFSCCSPEPEAEAEAAAG PGPCERLLSRVAALFPALRPGGFQAHYR DEDGDLVAFSSDEELTMAMSYVKDDIFR IYIKEKKECRRDHRPPCAQEAPRNMVHP NVICDGCNGPVVGTRYKCSVCPDYDLCS VCEGKGLHRGHTKLAFSPFGHLESEFS HSRWLRKVKHGHFGWPGWEMGPPGN WSPRPPRAGEARPGPTAESAGPSEDPSV NFLKNVGESVAAALSPLGIEVDIDVEHG GKRSRLTPVSPSSSTEESKSSSQSSCCS DPSKPGGNVEGATQSLAEQMRKIALES EGRPEEQME\SDNC/SQGGDDWTHLSS KE\VDP\STGELQSLQMPSEGPSSLDPSQEGPTGLK PREGPTGLERKLPLYPHLPPEVDPRDL SPFSQIACSMGLSS*LKGGLGSTRVPGRP KNY*HSERLWDTIQ\YSK\HPPAVVDHFL PTFFLRAPLLVFIVVFKLCVELAGLL
4329	12380	A	5244	24	493	HWQVLPRVKKRLSPLKTHNCALPSTKLS AVRDYLFYSENLFNPQLNKDS*RGK*QA LK/SPTAVVFLSLSHSFSFAVSEGCFHR ERQVASTSMEQLLSLLAGIPFVEDSCPLQ KELSKTLP\TLEVLGVSMFFKFSWLPVI WVFGFISQLSGLES
4330	12381	A	5245	1	4547	MRNPVHSHIGATVSHQTFGANVPNMP ALQSQLITSDTYSMQMOMIPSNSTRLPV AYQGNQGLNQSFSEQQVDWTQQCISKG LTYPDYRPPPKLYRYSQSFPLPDSTIQKQ NFIPHTSLQVKNSQLLNSVLTLP\SRQTS VPSQQYATQTDKRPPPPPYNCRYGSQPL QSTQHITKHLMEVPQSREMLSSSEIRTSF QQWQNPENNVSTIGNFTNLKVNTNSK QPFNSPIRSSVDGVQTLAQTNEEKIMDSC NP
4331	12382	C	5246	191	397	MLPRAGLLCGKLVPNNFSQPSRQILLCL GCDSPHLTVGHEGWKTLP\GAGATPYRI GPFSLLQRGVS*
4332	12383	C	5247	598	744	MSKVLNQSTYITVQCGYVSINSFYVSFY YSIKLAKRHLGTFRTVLVI*
4333	12384	A	5248	164	355	NGSTGCIGIQANQYFNYSRLSSFESGKFV KCTEQLELVPGENIH*LLEGSKKKLTLLK NLFRNM
4334	12385	A	5249	1	308	KVQSFFIFYLFIYF*DGVL*LFPPGWSAVV LSRLTATSA\FRFKQFSCSLSPSSWDYRC PPLHLANFCIF**RRGFTMLARLVSSIS*PQ VIRPPWPPKVLGLQM

4335	12386	A	525	219	471	INFKKNRNLFNKWW/WTVCATLEKNKM NSFLMIYPKSNK*FKNPVNRGKKL*NLF ILLYFKF
4336	12387	A	5250	67	367	SDELRTPGRESLPAENISL*DRVNHQPAIE SCTA*NYLYSINAKTKGEMLEAEGMRV VTNSVYHWRLCEKQQTVMKAGCWRT DKLCLPPEGMLWAVMSR
4337	12388	A	5251	1429	1621	IPWIPPVSRSMVTHTRAPTRFVHLPPFQ TDPFVVFISAFVLLRLVQKQP*QVVPDQ GPERGR
4338	12389	A	5252	180	411	IPWIPPV/CPFHGHTHLE/VHPHGLSISLYS PPADSPVQGFVRLISFTFSALADLPRSG PWSDTTCHGCFTVAASSEL
4339	12390	A	5253	288	530	
4340	12391	A	5254	9	257	IFTAVAFIIESWKQPQCL*TNE*/IKLWYI HTMQYYSAIKRNEKLIHATTWMNSEN QW*KARHKKPHIV*LHLYEGSQKRQI
4341	12392	A	5255	6215	7038	RTVTTFLSKDSHGVYCAQGGKIPDHQNP QCNRKQHPVSTILMLDKASFCQLRKRKH NLSVNCINRNPMSLKNTHSSLSVTQ RHQQQSKLHFQGSILH*PSQNIL/SNI*K CINYC*HCSSVLLSYLFIETESYVAQAG VQWHDGLLQLPLRFKQFSCFSLPSSW DYRSAPSCPANFCILVEMGFCHVGQAGL KLLASSDPPALASQAGITGVSHYTQPCS PFLKSTGLFCKVLSNPYHKGRIYLGRM CFLNSTWHLVKSTLFCPLFI
4342	12393	A	5256	2	513	VLIQLVWIALLLVDPSPVLTKDEPASS TSSFTSQSKKGQSGFLOSRN*GCIALC E/VFQREEIY*VGMD*DSFRIKWFFNFIFH LTVITSSDLHIHGEIWWVPNTDHSVCTRFF FVYDDCLVYAYINTLL*GFY*YILLVIV NYTGSVHWFIYYLVNLVFCFLLYI
4343	12394	A	5257	1	274	STPPHSSQRACEPLPSFAQCPR*APSPPAP HCALICPIPKMEERP/PM*IGR*RRHLLST YCARSCTEQAPCIILLNPHNVLDLSRLW VKGO
4344	12395	A	5258	3	436	GYLSEVVEENTPPKMEKEGLEIMIGKKK GIQGHYNLCYLDSTLFCFAFSSVLDTVL LRPKEKNDVEYYSETQELLRTEIVNPLRI YGYVCATKIMKLRLKILEKVEAASGFTSE EKD/PAGQKVQDCYFYQIFMEKNEKVG VPTIQ
4345	12396	A	5259	1	340	
4346	12397	A	526	1	1423	MNPNQEEISDLPERIQETEKEGTLPSNFY EASITLIPKLKDKTKKENYRPISEMMNIE ANILNKILANQIQHIKKIHHQDQVGFISQ MQGWFNHRSINVIHHINRIKKNHMIISI DAEKAFDKIQHFMIKTSLKIGIQGAYLN VIKAIYDKPTANIILNGKKVEAFPLRTGT RQGYPLSQLFFNIALEVLAIRQENEIK GIHIGKEKVKLSLFAGDMIFYLENPKDSS KKLLELIKELSKVSRWELNNENTWTQGG EHHTPGPVVGSGEERGIALGDTPNVNDK PLTGAALASTLGVWENENKFTHLFNIHS QFCLPSQGIFFLCGTSTYVCLTTNWTSTC TLIFLSPKIDAPGNQTLPPVRAQVHQH RAVQIIPLLIGLVTNATGTGIAGLSPSL YYHTLSKDLSDSLQDIKSTLTLQSQIDS LAAVTLQNHRLRPPNRRKRWAMHLFR GRLFFHQPVWD
4347	12398	A	5260	215	384	

4348	12399	B	5261	347	1742	MPNTNGSIGHSPLSLSAQSVMEELNTAP VQESPLAMPNGSHGLEVGSLAEVKEN PPFYGVIRWIGQPPGLNEVLAGELEDEC AGWYGWNLQEGTRYFTCALKKALFVK LKSCRPDSSSVLDTVLLRPKEKNDVEYY SETQELLRTEIVNPLRISAGQKVQDCYFY QIFMEKNEKVGVPITQQLLEWSFINSNLK FAEAPSCLIIQMPRFGKDFKLFKKIFPSLE LNITDLEDTPRQCRICGGLAMYECREC YDDPDISAGKIKQFCKTCNTQVHLHPKR LNHKYNPVSPLPKDLPDWDWRHGCIPCQ NMELFAVLCIETSHYVAFVKYKGDSDA WLFFDSMADRDESNEFVQITGVIGKKG ETEGRVLTLHLIRAGSSVHVHCRQWMSL W*
4349	12400	A	5262	1	1547	PVQESPLAMPNGSHGLEVGSLAEVKE NPPFYGVIRWIGQPPGLNEVLAGELEDE CAGCTDGTFRGTRYFTCALKKALFVKL KSCRPDSTRFASLPVSNQIERCNSLAIWE AYLSEVVEENTPTQKWEKEGLEIMIGKK KGIQGHYNSCYLDSTLFCFAFSSVLDTV LLRPKEKNDVEYYSETQELLRTEIVNPLR IYGYVCATKIMKLKILEKVEAASGFTSE EKDPEEFLNLFHHLRVEPLLKIRSAGQK VQDCYFYQIFMGKK*GKLGVPITISGSC*E WSFINSNLKFAEAPSCLIIQMPRFGKDF KLFKKIFPSLELNITDLEDTPRQCRICG GLAMYECRECYDDPDISAGKIKQFCKTC NTQVHLHPKRLNHNKYNPVSPLPKDLPD EIARHGCIPCQNMELFAVLCIETSHYVAF VKYKGDSDAWLFFDSMADRGGQNG FNIPQVTPCPEVGEYLEDVSWKTLHSLG LPGESQGCARRLLCDAIYVPCTQSPTMS LYK
4350	12401	A	5263	29	258	LRKYHATDLIS*GSVVGEFDCCFSLDGL SLEDAVDGLLALALQPHKEQYKEFQDLN QEVMLNDDILKVSTFSQKLD
4351	12402	A	5264	98	497	THENNYNEKKDEIKIFKISLQISAQEEFPF FRRWKSCLCCPRLGVQWHDLGSLQPPT SP/GFKRFSGLKLP/RAAWIYRYVPITSG* FLYFQ*RRGFTHVG/QADLDLLTSGDPPV WASQSAGITGVSHHAQPPYC
4352	12403	A	5265	156	1047	VPAGEARVQWHDLGSLQPPPPGSSDSP ASSSRVAGITGIKTNTICKKCAQNVQLYG TPKPCQYCNIAAFIGNKCQRCTNSEKKY GPPYSCEQCKQQCAFDKDDRKVDGK LLCWLCTLSYKRVLQKTKEQRKHLSSSS RAGHQEKEQYSRLSGGGHYNSQKTLSTS SIQNEIPKKSKSFESITNGDSFSPDLALD SPGTDHFVIAQLKEEVATLKKMLHQKD QMLEKEKKITELKADFQYQESQMRK MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKKSEKSGAITSP
4353	12404	A	5266	156	960	VPAGEARVQWHDLGSLQPPPPGSSDSP ASSSRVAGITGIKTNTICKKCAQNVQLYG TPKPCQYCNIAAFIGNKCQRCTNSEKKY GPPYSCEQCKQQCAFDKDDRKVDGK LLCWLCTLSYKRVLQKTKEQRKHLSSSS RAGHQEKEQYSRLSGGGHYNSFSPDLAL DSPGTDHFVIAQLKEEVATLKKMLHQKD QMLEKEKKITELKADFQYQESQMRK MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKKSEKSGAITSP
4354	12405	A	5267	4	496	DGFPSCCQAGVQ*HDLGSRQPPPPGSSD SPASASRVAGTTGMHH*SRDVLIRILELE EGLELCPHFVSRKLPKTGQILTMLSLAP VKLAPQPKLSWMELTRTQQA VSPFGR WGGIGRRKVLVPIAADGWASQARGLL GGSGKGEGKATGCEREGLTCLQG

4355	12406	C	5268	190	435	
4356	12407	A	5269	114	267	QLYINHTPPPLSKSKEREMDKKDLKSR TLKQKQKPLVNVVHNSWF*DHSN
4357	12408	A	527	31	332	
4358	12409	A	5270	1	1071	
4359	12410	A	5271	1	1231	GRFLCCMLETVTRWHS DRATYEKECGN YPGFLTILRATGFDGGNKADQLDYENFR HV VHKWHYKLT KASVHCLETGEYTHIR NILIVLTKILPWYPKVLNLGQALERRVHK ICQEEKEKRPDL YALAMGYKIIF*CDLQ D*MTEGF*RL*NVLQC*SLSSAFRRLWEI MRSCFHRLVRVTSDYQLPVYTG**FF*S HV*YFLIGRKYNFIIIVNRSSRVKKKKPS* FKD*FIGKL*FLRKLGV L*KPSRTY*KWV FFNSLEPHSRMNLLILFLKTSCLCFLIW VCIFKH FVRLSSYSGQLKK*EKSIP*YPEN EFPSQRPPPRNAVA\SVQNGPAGGGPSSS SIGSASKSDESSTEETDKSRERSQCGVKA VNKASSTTPKGNSNGNSGNSNSKAVKE NDKEKGKEK
4360	12411	A	5272	2	3383	ITDQVLLPSLSLMDCNACMSEELWGMF KTFPYQHRYRLYGQWKNETYN SHPLL V KVKAQTIDRAKYIMKRLTKENVKPSGRQ IGKLSHSNPTILFDYVCFEILSQIQKYDNL ITPVVDSLKYLTSLNYDVLACILSNCHIEA LANPEKERMKHDDTISSWLQSLASFCG AVFRKYPIDLAGLLQYVANQLKAGKSF DLLILKEVVQKMAGIEITEEMTMEQLEA MTGGEQLKAEGGYFGQIRNTKKSSQRL KDA
4361	12412	A	5273	442	1457	KHFLYIYAQMNCFSRLRKKKKKKKNQLL LQVFSSADE*GSSSSSSSSSGHKRHKHKH RNRSESSRRSRHSSRASNQIDQNRER* VLPSSS*YFSIFSFP*TRSGRKL LGKQDR LQYEKTQIKEKDR CPLSSSSLEIPDDFGG RSEDPRDFYNSYKTQAGSSKTEKPYKSE DIFPARRNSSDSFCRNSEAKIYG YRRFEK DIEGRKEHYRRWEPGSVRHSTSPASSEY SWKSVEKYKKYAHSGSRDFSRHEQRYR LNTNQGEYEREDNYGEDIKTEVPEEDAL SSKEHSESSVK/NKFTSEFTEYI*SDS*I*K RK RK*GQKINTPKDIGHPLQNAH
4362	12413	A	5274	2	457	KLIFFP RKPSAPQEGRQFC*KIGNRPTQL TGPVMPVRNVYK\KEKARVITEKEKNF QSPCLVFVMARAK\ARL\FGIRAKKSPRK PQNQDVEKEKIKTLPGNFEISLAVMPGSP TWCVSVGTTWALGWGFTACDFLLPRGF GAFLKRQVQAPG
4363	12414	C	5275	27	158	MH SKPTGQVSWLGMTTASLPGTNASSM WMPWRLEDHSNLDALP*
4364	12415	A	5276	1	320	
4365	12416	A	5277	100	659	CPLVIRSCSSALWDIETGQQTTF TGHTG DVMSLSLAPDTRLFVSGACDASAKLWD VYSQCFFLSVYMMMS*FAFSQFFPNGNA FATGSDDATCRLFDLRADQELMTLTPHD NIICGITSVSFSKSGRLLLAGYDDFNCNV WDALKADRAGVLAGHDNRVSLCGVTD DGMAVATGSWDSFLKIWN
4366	12417	A	5278	16	495	AFSAPDTRLFVSGVACNASAKLWN\IGE GMCGQTFTGHESDINAUCFFPNGNAFAT GSDDATCRLFDLRADQELMTYPHDNII CGITSVSFSKSGRLPPGMGTTFNFCNVW DALKSRTGQVFLAGHDNRQPAWGV D\DGMA\VATGSWDSFPQDLGN
4367	12418	A	5279	5	108	SRGFTLLARLVLS*PQ/CDPPLPLASQSA GI/TRLGMSYHA*PIIIFETR SRSVTDG/G VQ*CNHGLLPWHPGLKESSCLSLPG/G HAPPHLANFIFCRNRVSLCCSGWS*TSSD

						PPLPLASQSAGIIGWV
4368	12419	A	528	27	178	
4369	12420	A	5280	1	458	
4370	12421	B	5281	403	629	XVHLVKASCQACGQLDRVRKQVFNIPS FIVRLDSQKHIDFSLRSPYGGGRPRGVKR KNAKKQGGAGAGDDEED*
4371	12422	A	5282	1	637	PVARSWVCRKTYGDPGRGPFEEKSRLDQ VELKLIGGVWGSGBKREVLARVKFTLAQD SAKAAPGNWLTLDKEDPTGVLFERQTP LLR/RGLVPQLGCWDEGQKMKLADYIPG P*RLEDFFRETPTCKTQVFQSLGLAKSIHQ PRFACLSRQRHIRVRKQVFNIPSFIVR LDSQKHIDFSLRSPYGGGRPARVRKRN AKKGQGGAGAGDDEED
4372	12423	A	5283	3	295	VCIGVLLCCLGCGVRWHDHASL*P*PPG LKRSSHLSLLSTWDHRHMLTHPLNFFIV EPRSHYVAQTGLKLLGSSSPASASQSAR ITGVSHHTQSKK*FLFVEPRSHYVAQTGL KLLGSSSPASASQSARITGVSHHTQSKK
4373	12424	A	5284	2	284	
4374	12425	A	5285	1	785	MTGLALLYSGVFVAFWACALAVACWV NSGTDWAGGIWLERLLPRSRLGFLAGG DPACAGVCYTIFDLGFRFDVAWFLTETS PFMWSNLGVLGLAISLSVVGAAWGHSLT GSSIHVVEGS*KAPRDSKTKNLVSIIFCE AVAVYGIIMGNCSLSNMTEPFASATEPQG HRQFGN*PWQGYSHGLGAGLHRKPCLN LFCGVVCVGVGTWGPCWQMPQNPTASL CKRFSIVEIFWQAPLALFGVIGRKFFKTS MSERWVTR
4375	12426	A	5286	2	350	
4376	12427	A	5287	1	999	NLLKTHKFULLGQDEDSLHSPVPAQMGN YQEYLKTLASPLREIDPDQPKRLHTFGNP FKQDKKGMMIDEADEFVAGPQNKVKRP GEPNMSYVTKRRRSMALLRKPTPTC NNHVGGKGPPSASWFPSPNLIKPTLVH TDATIIHDGHEEKMENGQITPDGFLSKSA PSELINMTGDLMPNQVDSLDDFTLSK DGLIQNLVVTHL*EEPKTAASP*MTKKT Q*HLLWELCQIHYKSLLLWHKE/VNADI KHQLMKEVRKFRKYEYRIFILLEEVQGP LEMKKQFVEFTIKEAARFKRRVLIQYLE KVLEKINSHHLHNNISHINSRSSC
4377	12428	A	5288	329	661	ITLSLSFFNLRPSFALLAQAGVHWRDL SLQPPPLRFK*FSYLKSPRSWDYGHAPP RPANSVLLVETGSLHVSQGGILPTSGDP PASASQSAGITGVTCARPPSLFS
4378	12429	A	5289	46	554	NKTRKDPFPPTPAHGHTPTPTSLPFG/C SAHGHLKPRGSHCDQPPSTCRPPVQSPV AHASQVAGRTWA*KRALHLPGGGVKRK GTGSPKAPRSGCGLPYKLGSTARAAGSC SPAE/EPETFSPQGQPLPVNKGKLRVVGQ PSFQCAPRDSRSRYFQFGEEQGRAIEHQI P
4379	12430	B	529	110	719	XGRQQHQRWHETPDIKLFGKWSTDDVQ INDISLQDYIAVKEYAKYLPHSAGRYA AKRFRKAQCPIVERLTNSMMMHGRNNG QEAHDCAHRQACLRDHNTCSQAKNLE VRGTAINSGPREDSTRIGRAGTVRRQAV DVSPLRRVNQAIWLLCTGAREAAFRNIK TIAECLADELINAACKGSSNSYAINKKDEL ERVAKSNR*
4380	12431	A	5290	228	386	

4381	12432	A	5291	3	257	GPRERETGRTATAVEPDSCEERTYSNDT KRWCSHPGGNGGVPERQHLG*ATGSW GAKPLRLAAATRASGNPGHRSCLKLETI F
4382	12433	A	5292	3	1379	NEFFGEGKTLQAARHFAAMKALQALQN EPIPERSPQNGESGKMDDDKDANKSEI SLVFEIALKRNPVSFEVIKESGPPHMK FVTRVSVGEFSAEGEGNSKKLSKKRAAT TVLQELKKLPPLPVVEKPKVHFFKKRPKT IVKAGPEYGGGMNPISRLAQIQQAKKEK EPDYVLLSERGMP*RREFVMQVKGNE VATGTGPNKKAKKKKNVAVAMLLQLG YKASINLQDQLEKTGENKGWSDPTPGFP EPTNNTPKGILHLSPDVYQEMEASHHKV TS/GHYSRLFVTQRYEPTFKLFSSVYLPH RIVQSTFARHLLMNGTSSTAEIGLKGSS PIPLVPPVQPSKQLGIFSKGFKAFRVHYC DRQKWQRVCDLSDISPCADGL/SHAIGSS IEASHDQAALSALKQFSEQGLDPIDGSM NIEKGSLEKQAKHLIKVDHNPAPPGSIA HDCKISNSAV
4383	12434	A	5293	7	351	SSTSLIRKMQIKTTRYQNIPNRMAMIKNA DNTKL/WSRILTNYWWEYRHLHK*KYV HKKTCNFMIAALFIKFLKWKFKHSST GE*IKL*DRHMTEYY*AIKKAQATDRM QHE
4384	12435	A	5294	3	1585	GEPL/LHHTTCH/NSKALIAFLAFLIIVTSI ALLVVLTNIDYDLHRKRSCNVDEQQELVE RYDESNLMNVQPIHADIMLETYHRRRIAD EGRLFLAEFQSIPRVFSKFPKEARKTHN QNKTRYVDILPYDYNRVELSEINGDAGS NYINASYIDGFKEPRKYIAAQGPRDET DDFWRMWEQKATVIVMVTRCEEGRNRN KCAEYWPSMEEGTRAFGECCCKDLTKH KRCPADYIIQKLNIVNKKEKATGREVTHI QFTSWPDHGVPEDPHLLKLRRRVNAFS NFFSGPIVHCSAGVGRTGTYYIGIDAMLE GLEAENKVDVYGYVVKLRRQRCLMVQ VEVCSNL*DYSHFGFLDLNLFQVIIMIFF KNPNSSQPQTVDLTKTKTW*SPWPML CIW
4385	12436	A	5295	1	1323	MEDSRKAQKRDTKIEREEQLYWPSRKS GKSKGDLVLHTTYKPSHSGGRAVSGLFG SPIPSLGSWTAFLDPPWARVEPIALKGLT QRSPNGGGHRVCFVIPPAPPDGSEQKKR LCSFRRKEQSLPGNLENSFGSCPRLSRQY VYESARTTALMRLGCPLKQIQLISQDLSP FEYRESLPMKDKQNKHQIRISLSINTIQETI ISPNELSKSPGTNSGETEIHDLSDREFKIA VLRTLKEIQDNTEKEFKLYQINLTKRIEII KKNQAEILELRNAIGIQKNASQSFNSRNG REEEIISELENRLFENTQRRQNKRIKNNK ACLQDLEYRLKRANLRVIGLKEEVEKAI GVESLFGIITENFPSLEQDINIQQVEGYG TPSRFNPKKTTSRHLIVKLPKIRDKERILK VTRENKQVT*NGTHICLAADFVVAL*A RREWH
4386	12437	A	5297	3	226	GSGCEQGCPPGRYGPGEQLCGCLNGGS CDAATGACRCPTGFLGTDNLTCPQGRF GPNCTHVCQCGQGAACDPVTGTCLCPP GRAGVRCERGCPQNRFGVGCHEHTCSR NGGLCHASNGSCSCGLGWTGRHCELAC PPGRYGAACHLECSCHNNSTCEPATGTC RCGPGFYGQACEHPCPPGFHAGCQGL CRCQHGAPCDPISGRCLCPAGFHGHFCE RGCEPGSFGEGCHQRCDCDGGAPCDPV TGLCLCPPGRSGATCNLDCCRGGQFGPSC TLHCDCGGGADCDPVSGQCHCVDGYM GPTCREIVGPSGSPRTRP*PRGAAAPLGS

						SGRTATSPVRRRAASAPTAPTCVGVGRGR PATL
4387	12438	A	5298	152	990	LLLIHSEKPFEDNLYGKALSSNSHLHGP RRLCT/GENPEE/CEQL*KAFSAISRDCD SSH*GRKPVKVSEGFSDSHPLRHTGNHT MEQHSEMRNTLQKCSHY*ANYSVVFC S*LWESLECSIGF*GDLRINSGENAPFEHH QYWRAFWFSTFVKET/W*SIHTEK/PWK F*EEEEKAFSDASVLGK/HMELLPGCKTYE YINIGKFFSDSSLSCI/WRELTWRNP*ECN QC*DA/FSLNSSLSG/HQFSLGTKKYNHC FECGISFIQCLICRLDCWLINFFSLFFF
4388	12439	A	5299	1	181	EIEDLN*TITQLYLT*HLYRTLHRTPPAYK FFSSVHETFSRIDHVLEHKTSLENEF*RLK
4389	12440	A	530	443	565	QPGFGAGARAPNILTHKHLG/LLEFKTTG AQQQGF*LNESSF
4390	12441	A	5300	1	170	PPPPPFPLIPD*G*PPSPLSPGQLQSAPPP VLP CPDITLSYPGRRPVLGLSLMD
4391	12442	A	5301	846	1094	IPAL/P*FYFIFVYLNILKYLFFFFD/DGVL LCCPAWSAVA*SRLTATFASQVKRFSCSL SLLSSWYYRSVP/SSLANFCIFSRDG/SFIV LAMLVLNS*PQVILLPWPPKVL*LPIMEC SSLTIAHCSLNLPGTSNPPASASK
4392	12443	A	5302	19	391	AYPLRGGRDFLRGGPSRSVSLLSVVPAR V*RRRRRLREEARGAMTSASTKVGEIFS AAGAAFTKLGETMQLHPVADSSPAGA KWTEIEIEMLRRAAVKRFGDDLNHISCVI KGPDKGHCETQGI
4393	12444	A	5303	1	338	SLIFSDSLSSISGTNTLAAFLSWMLPYIPW ILQARPALGLLHLLAACNVVGQSAT*PS PSLPLGLCSSSHSQ*GLF*PPVFKISPLITD NPNPFDLHLMDFIQKTIKISL
4394	12445	A	5304	3	180	
4395	12446	A	5305	1	518	RAAQSPCSPWSRLACSGGGGVIREEARG AMTSASTKVGEIFSAAGAAFTKLGETM QLHPVADSSPAGAKWTETEIEM/PEGCC EAIWGRS*SHQLCHQGTDSGPDKGHC*N ARYIEDFWASPPFA*V/IPRKGPRRWASG VVFVHLLQLAPPKQLPVFPEGRGSPPIKE TERLM
4396	12447	A	5306	1	705	GAKFQRTSVPRRTTGPQGLKCLEDKVS LETTELDEEKNTVELLTDRVLNRGRDQVD QLRTELMQERS/SSGRTWKCDKISLERQ NKDLKTRLASSEG/SPESLVPASLSLPRI SCCRERLPAEQRVKTVLRSTNRKLERKV N*LSLQIEDERHHVSDTKDQLSLRVKAL KRQVDEAKEEIERLDGLR/KKAQREVEE QHEVNEQLQARIKSLEKDSWRK/GFPLS C*VSSQKRRRAELR
4397	12448	A	5307	831	1159	DVKSXSFFFFLRWSL/NPFAQAGV*WHD LSSLQPLPHRFKQFSCLSLLSS*DYRRVPP *LANFLYF**RQGFTMLARLASNS*PHDP PASASQSAGITGMSHRTQKKQIS
4398	12449	A	5308	296	526	FNCCEEEKFKKKPCFVSFLEGLERG*VK CQEHIPDTH***LLGLSEQINSDSRLRKEL NHFILFLEQLTCPHSRER

4399	12450	A	5309	5424	5957	YNFFLNEMGSCSVAQAGVQWHNHSSLO P*TLG*SSYHPASAS*VAGTVCTCHHVQL VF/IFFFLR*SFALVAQAGVQWCDLGSLP PPPSGFERFSCGLPSSWDYRRPPLHLVN FFFLYF**RWGFTMLARLVNS*PHDHP ASASQSAGITGMSHHVWLNINFFNCKSLI FSNVFRN
4400	12451	A	531	82	986	TMNTRNRGVNSGLGASPASRPTDRPDQ SGRQGELSPVEDQREGLEAAPKGPSRES VVHAGQRRTSAYTLIAPNINRRNEIQRIA ELELANLEK WKEQNRAPVHLVPRRLG GSQSETEVRQKQQLQLMQSKYKQKLKR EESVRIKKEAEEAELQKMKAIQREKSNK LEEKRLQENLRREAFREHQYKTAEFL /RQTEHRIARQKCLSKCCLWPTILNMGQ KLGLQDSLKAEENRKLQKMKDEQHOK SELLELKRQQEQERAKIHQTEHRRVNN AFLDRL/RRQKSTRWPRAIWRLEYE
4401	12452	A	5310	2	237	IKRFSYLSLPNSWDYKVPSSMPG*FLYF* LR*GFTNVGQAGFEIP*PQNDNPLSSQS AGITGMSHHNRPPFLFYFLK
4402	12453	A	5311	36	386	LNHRKFMMLLYYH*LLLFLFHF*DRVSV CHPGWSTVVNSQGFTAALTYWVK*SS CFNPPCVSWEPRGACHHALANFLIFCKN QVSLCLPRLVSN\WVQAILPSWPPRA GIYGV
4403	12454	A	5312	1	310	FFFFET/ESHVAQAGVQWGDGLL*SSP PGSSDSPASAS*ASGTTGA/QHHAQLIFV FSVETGFHPVSQDGLDLT* SARLSLPK SWDYRHEPLAPGLGFTF
4404	12455	A	5313	598	882	LIFLFSFFFFSFFFFFFFFFFFFFFFFFFFF FFFFFFFFLLLLLLLLLLLLLLLLLLLLLLLL LRQSL/DSVAQAGVQWRHLGSLQALPPR FAP
4405	12456	A	5314	439	1169	QSGHRYLYNLIHQVLCFTIFLRLQDLAV L/TQAGVQWC/DSWQPRPPGLK/GTPTSA AQVAGTTGMCHH\TR*IFFFFFFFFFFFFF FFFFFFFFFFFFLRQSL/DSVAQAGVQWR NLGSLQPLPPRFKRFSCGLPSSWDYRN APHPANCCIF/M*RRGFTMLAKLVLSNG DSPASASQSAGIIGVSHHARPPRYFKKYI FCRDGGLTMLLGWS*TPGLKQSSHLGFP NFWDYRCEPPCLATLFI
4406	12457	A	5315	1	222	ETGSHFVTQAGV*WCNLGLLQPLTPGLK QFSLSPSSWDHKCVSPSPANSFCTLG K*RRVSTMLPPGWS\QTP
4407	12458	A	5316	1	234	LRQSFAGWPRLECNGTIPAYCNLHLLGS SNPPASSPRRLIFVVLVEMRFLYA*AG LELLSSDLPPWHRKVLGLQA
4408	12459	A	5317	1	196	FFLINLTLLIVTAQFIN*LDFIDSYSTICPK PPEYTFFSRA/PNGTFTTKDHILGFKISLN KYKSI
4409	12460	A	5318	1	477	SCWSPV\WGHPDRDREPPPS*LGIQSSPG VPQAALPPWSPASHQASATWAVLPLPP LQGPAREPPCPPHLRRHVQPIKTSVSL SAPPLPPG*DLPEASFSQWACKGINKCL QGLGLVCRTEHKDLGLGLFGLVLAM VEVRGVDLTENNSGASVPRGR
4410	12461	A	5319	139	398	FYFFYFYFLRQSCSVNAGVQ*/HCLNSL QPPPPGFKRFSCSLPSRWDYKCPPPCTP NFCVFS/EMGFLHVGQAGLELMTSGDPP GFG

4411	12462	A	532	122	1340	EAASKTTKDNICSWKDDTIGCKEMPTSE NCPSFALHQKISDRNHGECREYGKTLCO DSKPVQHERIHSSEKPNRCKEKGKNSN GHQLTIHQRLHVGEKPYKYEKCGKAFIS GSAFVKHGRIHTGEKPLKCKQCGKTISG SYQLTVHKSIHTGKKPYECGECGKAFLV YGKLTRHQSTHTGEKPFGECECGKAFST FSYL VQHQRHTSEKPYECKEKGKAFSTS SPLAKHQRIHTGEKPYECKEKGKSFTVY GQLTRHQSIHTGEKPFESIHAIEKPYRCK ECGRTFSRASYLVQHGRHTGEKPYECK ECGKAFSTGSYL VQHQRHTGEKPYECK ECGKAFISRHQLTVHQRVHTGEKPYECK ECGKAFRVHVHLTQHRKIHTDVKPYEC KECGKTFSRASYL
4412	12463	A	5320	11	137	RWGFTKLPRLVSNWPQAILSPWLPKVL NNHREALYFSLYISKYTEGQFRNRLYP GTICQDYLWRYLLFLFIFETESCTVIRLEC SGSLQPPPRFKQFTCLRLHSSWDYRWRP PPWPINFCSRVQTGFHHVGQGLDLV DLCDPPASASQSAGITGREHPAPGYLW EGFKKSFKSRA*RTSLFFPLLH
4413	12464	A	5321	1	293	LERMSFGHIQTKEDILQENTIFIATEVQIQ PNPD*TPEAKAFNRCLSYRKEDRIDVH QLTCDPYLMPHMRMSVSTCSPAGAAIAS TSGASSSSSSN
4414	12465	A	5322	3	291	
4415	12466	A	5323	14	943	HRILEPLIFHFFFFSSAPPQPELLY/PASL TLPASPGREEVYPLPARLPSPRWEPLQV WLALGAVKLPLSPWSGPNGLGKPPGT PKRRGALFCHMPGILTP/WMPGARWTKP PANPPST/TSPVPPKDG*KLQPGGLRGKP GPERGWNPPCP/RSRPPYLLC*PQTLPR A*CFPIPKMSFTGHSPCRASLGHLE/VGH GIPLWPRVCQRRKSRAFFVLFKGAACLF NVNNRKP*YLCNTE*YFNHVLDVHNI FITKQQUEST*PWLPRGVSWLGAGGGYQG AWDREAPPRPIKLPPTLASRMRSCHL
4416	12467	A	5324	12	486	
4417	12468	A	5325	51	390	DGVLPSSLGWVEMCGSSAPLLRSPVDRL DGMWGVCHPAGWSIVAQSQFTAASNLL ASRAT/LSLPSSWDYRRVPPHSAHFKFFL *KWGLAMLPRVLNSWSQVILLPQPKV LEL
4418	12469	A	5326	279	380	
4419	12470	A	5327	618	818	
4420	12471	A	5328	1	197	
4421	12472	A	5329	2	498	CPRMTPKDFQ*PVL/VVTNLLGHVIDIKW MSIAFINDRAWPSAFVSDENHARIQCDG QHRFEVSVSELPDETVDVSTVLDLDHOG LGPPPPPAEPDPLQLLLQQLFGLGQLSCV VGPGPWRLSSARDKQNMVSIHKVKR PQSPPLRAVYWPLRYCILPSRRATVN
4422	12473	A	533	456	824	DRVSLSPRLECSGVILAQCNLHLP/GFNR FSYTLGLPSRLGITGHAPLCLGQFFVFLVE DGGFHHVGQAQLELLTSSDPPTSAVPKC RDYRHEPLRLACCSFLKQENIHNCWVRI YIRIFQTN
4423	12474	A	5330	600	811	PIWLSLSPWHFINQRKEKKK**DIVKREK PLMGLSTLTSI*MQSKPRKEHQINLKSEI K*LQDLSQYFGR
4424	12475	A	5331	1	75	FFFFFFFFFKLAMFVFFLFFFSK*KEIVLS QFLFVFL/TYLFYVFTSLKVALKISRDIKST FLRVALLFFLNNSWEFCGSTAFPSVSML CMF*LLL*FFFFFFFFFKLAMFVFFLFFIF SK

4425	12476	A	5332	949	1711	VTIPLIPDLKGSSCVGPPKP*DCRHWTPC LTLIYFFFFKVESPSVAHAGVQWHDLSL LTLSPDQV/HSPVSAF*VAGIQG/MHHHA RL/FFFFFFFLRQSL/SSVAQAREQWCYH GSLQPPPSGFKRFSLSLPSSWDYRCPP HLA/DFVFLIEMGFTMLTRLVSNS*PQ/C DLPASASQTAWITGLSHRAWLNFFCIFI YGVSPCWPGWSLTPDLK*SACLSL*CW DYKCEPPCPAQFTFIRKDSFADVCSVS
4426	12477	C	5333	11	154	MESRSVARLECNGAISAHCNLHLLGSND SPASASRVAGTTGTATTPG*
4427	12478	C	5334	163	270	MNKMESLFYCFNADILIKQDYFHHQHHL YIYTKPV*
4428	12479	A	5335	92	404	WLQICVSGCICT*MALYICIN\VVVVVKVV LFYEDVCIKAVK*AFHFHNLMCVYICM CVCVWNIEGLYIPPQRYIHMAVLLHRSN SQTGPSIRYKFKISFIGFI
4429	12480	A	5336	2	1100	FALAARLQEFGRKYFTESGLVGLLEQA AASFSMAGMYEAVNEVYKVLPIHEANR DAKKLSTIHGKLQEAFSKIVHQSTGWER MFGTYFRVGFYGTKFGDLDEQEFVYKE PAITKLAEISHRLEGFYGERFGEDVVEVI KDSNPVDKCKLDPNKAYIQITYVEPYFD TYEMKDRITYFRQKLQSSVRFMYCTPFT LDGRAHGGTSMEQFQKGRPLDYVSCL FPYIKTRG/PMSLIKKRSSLHPFEVAIED MQKKTQELAFATHQDPADPKMLQMVL QG\SVGHQVNQGPLGSCPGFFCSGNT** PKALSDIH*KLATLAFKDFTKRCEDALR KNKSLIGPDQKEYQRELGEKLSSALKRA LPAT
4430	12481	A	5337	48	1057	RCWENCTSTCKTMKSDPYLR/PYTTINSK WIKDLNVRPETIEENIGEKFLDMTLGND FLDITPKAQSTKTK/DKWDYIKPKSF/CTV KETVNKMKQ*PTD\W*KIFVRHIYGKGL VSKIYKEFIQLNF*KWAKDLKRHFSEDD TQMANRYIKGCST*LIKEMHFKNHSKY YLSPVRLAVIKKNKNNKC/W*WCGIKGT L/LHCWWECLVQPLWKTEWKFLARKIK LPYDPAIPLGIYSK*MKSPCKYICS/RV FIAALFIVA/K/TWRQLKCPLT/V*IRKLCI YMPYTPMEYYPLKTKKNPTISCHLLPT WMGLKDTVLNEISQTEKKILHNFTIYVES KKKI
4431	12482	A	5338	2	409	PLALALAMAYPSCPGDAHGPPRPGPLSP PS*PASVP/TSP/PQSSA*FLCPQSYVEGL TPRILPAGGGHVPCSRPSSSGLASVSAP RWGALLPGPCPTSLSSGCRKGRASPRA HPPPTASLCTALWPPCFSP*PGVGLGNG LSLLPRRCTWPAAARSTVSSLLACLPNS PLNLLRDSSVLSHTQLRGSPHGFYPLEGA MFPAPALPPHQALPRYQPPGELCCCLD HALLSPRDVGKGGPALELTHPPQQACV LRSGHLASRLHNL
4432	12483	A	5339	32	323	KFHLGGGGWFPPLFGPGGARGVGS*VR GFRPPWAPPLNPPFFPKQNSPGLVVFAF RPSSSGG/PGPGNSPHPGGQFG*QKFRP CPSAWGTGGGF
4433	12484	A	534	1	2278	
4434	12485	A	5341	4	329	IIAHCKLKRPSNDPPQPPSSWDCRHAPP HPAN*FFF*EMGSCHVAQTSSQTPALNPS RYPPTSASQGAETVMESHCAQLYPCFLT KEK/FSHS*IRRLLSETSNGEY
4435	12486	A	5342	3	274	FQSQNIKLNLMGVLCFETEASHT*AG LQWLDLSSLQPPPGFKQ/FSCLSLSSW DYRSPPRGPVNFCIFSGDEVSPYWSGWS QTSCLK

4436	12487	A	5343	1	1075	MVDGTL L L L L L S E A L A L T O T W A I G S H S L K Y F H T S V S R P G R G E P R F I S V G Y V D D T Q F V R F D N D A A S P R M V P R A P W M E Q E G S E Y W D R E T R S A R D T A Q I F R V N L R T L A R L Y * Q S E R R P G S H T L Q W M H G C E L G P D N A S F R G Y E Q F A Y D G K D Y L T L N E D L R S W T A V D T A A Q I S E Q K S N D A S E A D H Q R P V L Q A T F V D S F P K * L Y E G K E T F L H L E P P K T H V L H H P I S D H E A T L R C W A L G F Y P A E I T L T W Q Q D G E G H T Q D T E L V E T R P A G D G T F Q K W A A V V V P S G E E Q R Y T C H V Q H E G L P E P V T L R W E A R F P S P P I L P S W A S L L G L V L L G S V V S E A V V A A V I W R K K S S G H F L P T G K G G S Y F K G
4437	12488	A	5344	58	426	K L Q L L * F F F W F F C L F T Y F L E T V E C S G A I A H C S L K L L G S S H P P A S A S L V A K I T G A C H P A W L I * V V L I V L F K R K W Q S H L K L M V E K R F L S E G Q I L S V Y H F R V P L L Q N D R N L A Q I I L G R K R E M Y
4438	12489	A	5345	3	284	K K I L R K K I L R K S S V * I * D * S S Q P E N I P * K Q F L S N H P K C T I T L S M R N M S I M K K G G R I S E D F I K L F F P S L L S H L L V I E W G L Y I E I Y L T P P N N T F
4439	12490	A	5346	2	225	T L P C T L S T S P T W S A S S Q E R E M S F G D G * P V G * P P L T A V P C C S V W G L R R L * G E R T K L G I G A A G G F H S Y D G N T Q T
4440	12491	A	5347	3	104	W S T V A R S * L T A T S C S F C L S P P S S W D C R R V P P C L A / S F H F Q Y I A L N N * A * A I L P Q P S K V L G L * A S A L Q V A G T A G V Y H H A W
4441	12492	A	5348	2	392	T G K N E I Y C I C F I D L E Y Q * K I G L L L H I G D K E E Y S / W N S G Y F I G Y C L E L P C P V V K V S G N * N D S I E A A V L M T T P S K I K I * V T L Q S K E A S P I K V L T Q V I G D I K G I L E N G H Y K Y Q L * Q F F K L Q K G N D N H
4442	12493	A	5349	2	67	A A E D * H C P I A S E T Y K T I T E L W V T L P V E G K S V P F L I N T E A T H S T L P S F Q G C V S L A S I T V V G I D G Q A S K P L K T P Q L W C Q L G Q H S F M H S F L V I R T F P A P L L G R D I L T N L S A S L T I P G L E P H L I A A F C S S S K P P S H P P L V S L H L K P Q V * D R L G N L Q D H H R C F G
4443	12494	A	535	750	1053	P S T L S S L I S R H D D E A T R T S T S E G L E E G E V E G E T L L I V E S E D Q A S V D L S H D Q S G G I S L N S D E G D V S W M E E Q L S Y F C D K C Q K W I P A S K E L L K S F D L S I P V
4444	12495	A	5350	2	275	E T E S C S V A R L E C S G M I S A H C N L C L P D T G N S P A S A S * V A G I I G A C H H A Q L I F V F L V E T E F H H V F H H V G Q A S L E F L N L V I P P R P P K A L G L Q G
4445	12496	A	5351	3	1031	S S A P E A A K K P T P C H R C R G L V D K F N Q G M V D T A K K N F G G G N T A W E E K T L S K Y E S S E I R L L E I L E G L C E S S D F E C N Q M L E A Q E E H L E A W W L Q L K S E Y P D L F E W F C V K T L K V C C V P G T Y G P D C L A C Q G G S Q R P C S G N G H C S G D G S R Q G D G S C R C H M G Y Q G P L C I D C M D R L L Q L R S R N E T H S I C T A C D E S C K T C F G P * P T G L R R S C E V G W V L D E G A C V D V E K C A A Q T P P C S A A Q F C K N A N G S Y T C E A E G D S S W V G C P G K G P G N C K Q C I S G Y A R E H G Q C A D V E R V P H * P E K T L C E E K T K T C Y N T P G S Y V C V C P D G F E E T / R R C L C A A G R R L K P Q K G E S P T Q L P L P
4446	12497	A	5352	206	330	K M L Q L A L Q S C I K V R T L N S R H L G A G V T A H E E * C P C C H P M I K Q
4447	12498	A	5353	1	8271	
4448	12499	A	5354	2	10028	

4449	12500	A	5355	2	5217	APLDGEVELLQQKLREKLDEFNELAIQK ESADRQVLMQEEEEIKRLEEMNINIRKKV AQLQEEVEKQKNIVKGLEQDKEVLKKQ QMSSLLLASTLQSTLDAGRCPEPPSGSP EGPEIQLEVTQRALLRRESEVLDLKEQLE KMKGDLESKNEEILHLNLKLDQMNSQT AVSLRELEEENTSLKVITYRSSEIEELKAT IENLQENQKRLQKEKABEIEQLHEVIEKL QHLSLMGPVVHEVSDSQAGSLQSELLC
4450	12501	B	5356	224	326	XSSSDGNLRPEAITAIVVFSLLAALLAV GLALL*
4451	12502	A	5357	87	558	STFFPAIKHWVDLTAQRGHCLSPRSHSN EGRQMQUERGPRWAGSPAPSPWSPEGPG PRLHGRTERKERGLWGLDTPQRKVGS SRGVGPEPQHT*AAGTAKQRQHAAQSPP HGCPQPLPTSPPEPSEAGVSVAADVYPK ATRSPGQCWWLQQAFAFR
4452	12503	A	5358	3	713	TDRGCRGRDTFHEPELG/PKTPGPGAPLQ VPLAGDAVGGASARSPFLGAGNPPPIPW RTPAGAASGAGPAAPAGPLGPSLG/RKY RPLLRMRALFCLHPPAPAPMATCVHKP SLLSSRSSTS/SAALLAVGAGTVGAE/RF GRSGRRRAPTGPVARSSSPMQPRPGPLR TPRRRCRAACPSRSPLLHLSPIAV*PWG KAVPSLGSQIHPVLNSREEGTSKTLPLRS REDGAHFYIFI
4453	12504	A	5359	2	807	RPQGFPAWRLPSRRGATPGRLPRS*PRPH PRPEPGVRVGPWVHIESVR/HQDCSGRSP GQTPTCEDRAPSGKGSALGRGSLGPWTL IGSGRG/RSPGKLGSPGPAKAF*RRR/RA SKVAPGPLDGWPRIAQAWAREKGKHLA WGTGGSWPPSHAPGHQLGFQKQPLGN QREWGQNLGIQDL*GQVDPNRPPPLSGP GDRHLTGKPSGREGALSQGPQGRHSPGR PQQQASSCCERSHPGLPPVTTHCPGVQ WASCPGWGCLARCSRPA
4454	12505	A	536	426	634	VFCYSRTNWNKTEINRKKFGKLPISWKL SSTLLNNQ/L/VSEENKREIKKYPDINENE DTTYQNLWNEKQC
4455	12506	A	5360	1	412	FFFFLRWSL/NSV/SQAGVQWWDLSELLQ LLPGFKQFSCSLSSWDYGCPPRPANFL HF**RQGFTMLFRLVSNS*PHDSPISASQS AGVIGVSHRARPSCLLLAYFEFVSKWK QSSTKALPCGFRMLCPVLTPEK
4456	12507	A	5361	3	884	YLSIHQVYGKEACIPCGPGSKNNQDHSV CYSDCFFYHEKENQSLHYDFSNLSSVGS LMNGPSFTSKGTKYFHFFNISLCGHEGK KMALCTNNITDFNVKEIVAGSDDYTNL VGAFVCQSTIIPSES/TGVSEQPYHHNPIL ADTFIGVTVETILKNINIKEDMFPVPTSQI PDVHFFYKSSTATTSCINGRSTAVKMRC NPTKSGAGVISVPIKCPAGTCDGCTFYFL WESAEACPLCTEHDFHEIEGACKRGFQE TLYVWNEPKWCIKGISLPEKKLATCETV DFWLKVGAGV

4457	12508	A	5362	3	2697	CSVKECLQASAKLPSAPASVSLCLLVA KVWRRLRWQEAASFSCASGEYLEMKNQ VCSKCGEGTYSLGSGIKFDEWDELPAGF SNIATFMDTVVGPSDSRPDGCNNSSWIP RGNYESNRDDCTVSLIYAVHLKSGYV FFEYQYVDNNIFFEFFIQNDQCQEMDTT DKWVKLTDNGEWGSHSVMLKSGTNILY WRTTGILMGSKAVKPVLVKNITIEGVAY TSECFPCKPGTFSNKPFSFNCQSCKIIDPF LKRFFYVAEEGSSECTERPPCTTKDYFQI HTPCDEEGKTQIMYKWIEPKICREDLTD AIRLPPSGEKKDCPPCNPFGYNNGSSSCH PCPPGTFSDBGTECRPCPAGTEPALGFY KWWNVLPGNMKTSCFNVGNSKCDGMN GWEVAGDHIQSGAGGSDNDYLILNLHIP GFKPPTSMTGATGSELGRITVFETLCSA DCVLYFMVDINRKSTNVVESWGGTKEK QAYTHIIFKNATFTFTWAFPEN*FRVQD NRRFINDMVKIYSITATNAVDGVASSCR ACALGSEQSGSSCVPCPPGHYIEKETNQC KECPPDTYLSIHQVYGKEACIPCGPGSKN NQGKKMALCTNNITDFTVKEIVAGSDDY TNLVGAFVCQSTIIPSESKGFRAALSSQSI ILADTFIGVTVETTLKNINIKEDMFPVPTS QIPDVHFFYKTIYRQIIDIKCPAGTCDGCT FYFLWESAEACPLCTEHDFHEIEGACKR GFQETLYVWNEPKWCIKGISLPEKKLAT CETVDFWLKVGAGVGAFVAVLLVALTC YFWKKNQKLEYKYSKLVMTTNSKECEL PAADSCAIMEGEDNEEEVVYSNKQSLLG KLKSLATKTAIGVFGGPWSLGYVISCQY SETRSSCIISVHAKNEILAIEEE
4458	12509	A	5363	1	1146	NFDSKRRITVRNLRIREDIKYLRLNDPN SAHYDPKTRAMRENPYANAGKNPDEVS YAGDNFVRYTGDITISMAQTQLSVSSMS SHFISAHKTFGIV*SLFSRSIQ*CSCQLTK MFRITLVFAWEA\YDKGSEVHL\QADP/T KLELLYKS\FKVKK\EDFKEQKESILEK YGGQEHLDAAPAEALLA\QTEDYVEYSR HGTVIKQGERAVACSKYEEDVKIHNHHTH IWGSYWKEGRRGNKCCSHFFKYSYCTG EAGKEIVNSEECINEITGEESVKKPQTLM ELHQEKLKEEKKKKKKKKKKHRKSSSD SDDEKMGHVKSNAKALNA*EARLLHVKE TMQNDERKRP\YNSMY*TSRPIEEEMEA YRMK\RQRPDDPMASFLGQ
4459	12510	A	5364	3	1589	APALKVILRYT*TDAPAIWWLDELTYG CAKPFVFTQGHVSNRSFFPCFDTPAAK CTYSVVKAPSGVQELMSATRSAYMEE EGVFHFHMEHPVPAYLVALVAGDLKPG DIGPTSRVWAEPCLLPATSKLSGAVEQ WLSAAERLYGPYMWGRYDIVFLPPSFPI VAMENPCLTFIHSILESDEFLVIDVIHEVA HSWFGNAVNTATWEEMWLSEGLATYA QRRITTETYGAFTCLETAFRLDALHRQ MKLLGEDSPVSKLQVKLEPGVNPShLRN LFTYEKGycfVYYLSQLCGDPQRFDDFL RAYVGEYKFTSVVAQDLLDSFLSFFPEL KEQSVDCRAGLEFERWLNATGPPLAEPD LSQGSSLTRPVEGLFQLWTAEPDQAAA SASAIISKWRTFQTALFLDRLLDGSPLP QEVVMSLSKCYSSLLDSMNAEIRIRWLQ IVVRNDYYSLT/FHRVRRFPGRARCHAC YTIPLYEDLCTGALKSFALEVYQYQGR HPNLRRAIQQILSQGLGFQHRARP

4460	12511	A	5365	1	418	FMGGVNRADENIDKYRASIRGKKWYSS PLLFCFELVLQNAWQLHKTIDEKPVDFL EFRRRVVCHYLETHGHPPEPGQKGRPQK RNDSRYEGP*IQVDSNPQKQTRCAEC HKNTTFRCEKCDVALHVKCSVEYHTE
4461	12512	A	5366	1	205	KKFSCGLKKIFHEKNCQST*QISLLSYFK KLQQPQLSSTTL/SQQPSTLRQNPPAK RL*LIEGSADG
4462	12513	A	5367	1	389	CRFNAISSKITADFTVFGGFLLLEVHKVIL KCKWKYYKSRIVKTGFKKTQLS/GLILH NNKT*YTSIIKTELTKYRHRMENPEIDL HRFDQMIFDEGIKVIQ*GKERLFNQWCW SRLRCICLKFSITNGQ
4463	12514	A	5368	2	300	TFPNLMTNMNLQIQEAQ*IPSWKNSE/RS Q/SRHLIKLLKIKGKERILKEQKLITYKG CSIRLRGDFSPETTEARK*WDDIFKVLKE QVSTKNLIFSITVL
4464	12515	A	5369	199	494	
4465	12516	A	537	1190	2097	SSCLKILNITLAKSLLL/CLDISVCYLLD TGICYCLLDISVCYCLLDISICYCLLDTSV CYCLLDISVCYCLLDNISICYLLDTGICYC LLDISVCYCLLDISVCYCLLDISVCYCLL DISVCYLLDISVCYCLLDISVCCCLLDIS VCYCLLDISVCYLLDISICYCLLDISVCY CLLDISVCYCLLDISICYCLLDISVCYCLL DISVCNCLLDISFCYLLDISVCYCLLDIS VCYCLLDISVCYLLDISVCYCLLDISVC YCLLDISVCYLLDNSVCYCLLDISICCC LLDISH
4466	12517	A	5370	256	514	
4467	12518	A	5371	2	1340	SLDLGGISTVVVNGYDVVKECLVHQSEI FADRPCPLPFMKMTKMGGLLKSRYGR GWVDHRRLAVNSFRYFGYGOKSFESKIL /EKETKFFNGCYWKHTKVGPFDF*TV**R MLFSNITNLHFWEERFHFMQGHRFFRH MDWSYFRWKMWNAASASVFLYNAFP W/WA/FLPFGKHQQLFRK/WTAVVYDFL SRLIEKASVNRKPQLPQHFDAYLDEMD QGKNDPSSTFSKENLIFSVGELIAGTETT TNVLRWAILFMALYPNIQGGVQKEIDLI MGPNKGPSLGR/RNAKCPYTEAVLHEVL RFAGNIVPLGIFHATSEDAVLRGYSIPKGT TUITKP*FLYHLGWKKVPGEDPQKVFP ERFPGTSSGIFWPQEGKLWVPFPLGRRH CPWENTLARMEMVLFFSSIASEVSFAFS HMN*FQI*SPRLGMTLQPQPYLICAERR
4468	12519	A	5372	135	273	
4469	12520	A	5373	1	344	LNTLPEVPFTPLSCLPSLSLSS*LAPSPFICI CYAIVP/PPFLLPSDLADPSSHPLPFLFP PHSPRHAPSAPPSKKKKKKKKKKKKTTA PVQASLGTSSLYPLGGSETGPTWS
4470	12521	A	5374	1	724	GRRGRGRAGSRAGRRGGAQAAALVNR GGGPIRNYSDVAGGAAGG\GGR\NRPAP YSRPKQLPDKWQHDLFDSGFGGG/AAG VETGGKLLVSNLDFGVSDADIQELFAE FGER*RAAVHYDRSGRSLGTADVHFER KADALKAMKQYNGVPLDGRPMNIQL VTSQIDAQRRPAQ\SVNRGGMTRNRGA GGF\GGWVDGTRKGT\RGGA\RGGRGA GRNSKQQLSAEELDAQLDAYNARMDS
4471	12522	A	5375	37	331	GLLCQASGPQAPGWPAGLGRRGQGS LPVPPRPVPA*/APGHTCHAL/GKIPF*VPL PLQ*GPPETHLREPPPGPCPPS/PVSPYQ GFLQPGGRAGGDRD

4472	12523	A	5376	1	385	FFFFFFFFETETCSVA*AGVQWRDL* LQPPPPGFKRFLCLSRPSSWDYRCTSPYLAH F*FLVETGFHHVQGAGLELLTSSDPPIA SQSAGITGVSHCTWPKLTSTLMNVFPL NIILLYLVILAK
4473	12524	A	5377	21	352	PTHPWPPTVLEATAPGSEYFF*DAVLLS SRRLECSG/SISAHCDLHLPSSSDSPSSVP QVAWIIIGVRHHVQLIFVFLVEMGFRHVD QAGLK/IA*PQVIHPPRPHKVLGLQV
4474	12525	A	5378	2	545	TCLGFFQMFFLGLSIFVCYILLKFDCVFIF SSNLGSLIFVCYILLKFDCVFIFSSQLPFFT FYMDYSNPLGLSMSSLRIS*KTF*MYG*V LYFFF*KRNSQCFFPNRDYFWIVCSSSV DLFCTLFFTSCPHQOPSCSPPPGNKGPA PLPTVTLEALKMMMVFFIGLSSRIRGRS WKSP
4475	12526	A	5379	545	1462	GYFPCFIFPVATS*QSIGVVNF*LFEYFVY IYIFEGFWGGLICLVSSVCLFQVYFSFA KIIIPPFGKTTLPSTLVNNWELTSLHQP K/RPANFVIFGKRQGFHVGPGLNSGPHA IRPASASQSTGITGVSHCACALNFITEP
4476	12527	A	538	163	372	IRQRKAKLVVLA FNRRGLRKPDI/FYIYAG VGKIVKKKYSGFFIELVTTCGKNYLMCA LAVIDPRDSNIIRS
4477	12528	A	5380	2	243	GFKQFSCLSHPSSWDYRCAPPHPTNF*F LVEPGFHHVQGAGLELPTSGDLPALASQ SAGITGVSHHPWPMSALNSKNVR
4478	12529	A	5381	1	328	SPETGSCSGAQAGVQWHDLGSLQP*LGL K*SSYLSLLSNWDYRCA/PPRLANFLFFV QAGSCHLAQAGLELLSSCHLPALVSQNA GITGVSHHARAGSCMEENTSLWTL
4479	12530	A	5382	2568	3052	RGTEGRRVKSSKAGFFCFVLCFVLRWS LTLAQAGVQRHDLSSLQPPPTFK*FSC LSLPSSWDYRRPPRSG*F/SFVFLVETGF HQVGQAGLELLTSGDPPASASQSAGITG VSHHAQPQLDLEPPVCGQRMALLLE RLPETVTCFLFPSELCCRAR
4480	12531	A	5383	2	306	FFEMESCSAAQAGVQWHPNSSLQPLPG FKQFSCLSLPSSWDYRRAPPHANFEFL VDARFYHVQGAGLELLTSSDLLASAS*S AGITGMSHHGWP*ATF
4481	12532	A	5384	141	414	IRITEGGAQASVVKTPQV/WLGTVAHTC SPSTLRSRGGWIT*VQEFKTSQSNRNRQG CNLVWSLKLTSILLTFELDSIRQEEGKLV RRWGR
4482	12533	A	5385	2	287	GRVGNNKKFGGRISLC/QPGWSAVTQLQ LIVTLNSWAERFSQLDLPS*DYRCTCLA NFLTFCKDECLAMLLRLVLSWPQGIPL PQLLKVLELQV
4483	12534	A	5386	663	1014	ILKHYPQSIIILQRKHTRQLSASLITNAK VFFQASRFNVSSHILALLQENIFYFNTPK VICKPG/CVIRITF*KL*IASQVRWLTPVIP ALWEAEAGRSRGQGIKTILANTVKPRLY
4484	12535	A	5387	3	208	EDVNRWRDIPSPWIGRVRIVRMSVLAPNP INNTYINTEFLILI*Y*YRNTSIPIKISGRFF VLLRENEN
4485	12536	A	5388	190	261	ISIF/CFFKTDSSCVAQAGVQ**NLGSLQ/P CNLQPLPPGFK*FSCLSLLSNWDYRCAPP /HPNFCIFSRDGISP*LSILPTTPIKVARKI LI

4486	12537	A	5389	31	1431	RETRSCWAHYHAESSKHQKAKLKDSRK ARRSIELIGPGSSQKGGDICSILHSSKLGI LCYSKTGNMGGWEGGMQLRVSSSENSM GKSSRERAAADLPQGSCWHELPGRLLINT RISLKPRHVWNLSSVLCQVVKKVKSQM MFHMPITSAMQGDRLGICVTQFDPKLE RGLVCAPESLHTVHAALISVEKIPYFRGP LQTKAKFHITVGHETVMGRMLMFFSPAPD NFDQEPILDSFNFSQEYLFQEQYLSKDLT PAVTDNDEADKKAGQATEGHCPRQQW ALVEFEKPV/YLPSAVPGDWLQARCGHS PNTCRLAFHGGQSCSTG*RTGT/NADSF RLKVYKLLKHKHGLVERAMDDYSVIGRS LFKKETNIQLFVGLKVHLSTGELGHDSAF GQSGKFKIHIPGGLSPESKKDPDTPPSKT GPGWPVGGQPGRRRSPSGANPHKMGW LTRPFKRYVFDTHKRMVQSP
4487	12538	A	539	995	1192	IILGNLTACSFYTSSLNAVWLIKSAMLQL YFIFFFGDRPSLCHPGWSAVVQSLLTAT STSWAQAE
4488	12539	A	5390	1	421	FFFW*GTESQLLPQCSGAIHAHCSL*LPG SSEPPTSAS*VPETIGTY/RHAWLFFFFNL FFVETGSHYVAQAGFEPLGSNDPPAPQP KLLGITGMRHHSRPELLPLTVPMWSWESQ DGETEDFCAMETWKVNITCLAQTPRL
4489	12540	A	5391	1105	1497	LFRTSLLVIAFLPKKNFFF*HYA*SYNVH PNTARKIKPEFRAVRVSFLLSERMSNIFFF FFDTEFHSVTRLECTGT*STHCDPRLP GFEQILPASASQSSWDSPACATHARLIFV FLVETGFLHVGQAG
4490	12541	A	5392	109	695	LLLIPSAVTSYPPKDLPWGGMILSKPPLL GSMLANNCIVAGGCS*SSTLPS*LSSWRV GPQHLPRHARPPHQVQYIISQDGVQHL LPQEYVVVPEGHIIQGGQKGRITHIQYEQ GAPFLQESQIQYVPVSPGQQLVTQAQLE AAAHSAVTAVADAAMAQAPGPVWLQD EDKCPKHNSNKLQHPRASKYDVITPGR
4491	12542	A	5393	1	405	
4492	12543	A	5394	203	458	
4493	12544	A	5395	2	1185	LILNKKSRTRRSFFRRRHGSPHGFAPWRP SRLAEPGELG*REREGYNNPPISGENLIG LSRARRPHNAIFVNFEDDEEVPKQPLEAA AQ/TWRRVCTNPVDRKVEEELRKASPA LRLAPLFDIRPIWSRNAVKANITVHPNRF KAWLPFIAYYMITGPWRSWIRFGYDPA RKNPDAKDL/YQVLDFAIRJRCGMKQGYA PSDLPVKAKRSTYNYSPLITVKKTSISQL VTMHDLEAWPWPRRGRSGARKPASSKY KLKVSLLQTLRDSVYIFREGALPPYRQM FYQLCDLNVVEELQKIIHRNDGAEDFLA QERGWGGCLPQGPDEF/RGDTMSPMIR ETIGSKRPALFSSSAKADGGKEQLTYES GEDEEDEVEEEEEEDFKPSDGSSENMEN NQNF
4494	12545	C	5396	95	295	MSTIKAPXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXLSSLRIJLFQNIYLYWDKIT FLYCEHTVGAQ*
4495	12546	C	5397	262	390	
4496	12547	C	5398	118	132	
4497	12548	A	5399	109	559	QFLHRLVHDSGEVWMKLV**NTLLAK MVSISWPRDLPASASQAGITGLIGALVL SVGIYAEVER/HEI*NP*KCLPGSSHHPHP PGRRHVHGLLHWCAGVPP*QPGKH
4498	12549	A	540	77	199	SKSRPIASNKIEAIKSLPAKPPGPDGFAT EFYQTFKEEL

4499	12550	A	5400	1	362	FFFFLRRSL/SSVPQAGVQ*HDLSSLQPP/ PPGFTPFSCSLPSSWDYRCPPPPAKFLL YF**RRGFTMLARMVVIS*PRDPPASASQ SAGITGVSHRARPPPPQFFIQLPLYNIHTL EGR
4500	12551	A	5401	2	462	NPPTSAS*VAGTTGACYHTRLILVCRDR VSPCCP/VLVFFFF*DRVAQAGVQWHG LGSTCQPSCPPGFKRFLLPSPALSPSS WEYRHPPPPRPAFFCIVFVETGFTVLAR MVIS*PRHLPALASQSAGITGLSHCARP VDSFLATSIY
4501	12552	A	5402	3	352	SSRPGSCRRGAVRAAIRYVRLRAVPSGG GEPPSGAPLQPSWK*AFARPGMLRCSPM SQAPSRSAAVLFEPLAEWMLHCA*QDEV RLGGH*GRRGPLLLDRSRA*RESPAEVRP ARE
4502	12553	A	5403	3	286	SVAQVGMHGHSLGSLQPLPPGLK*SSHL NLPSSWDYRHAPPHLANFCIFFVETGFR HAIQAGLKLSSSNWPTLASQSVVITGV SHRAQPC*TF
4503	12554	A	5404	73	542	VLIFFFFLKLSL/DSVA*AGVQWCNLSSL QPPSPGFK*FSCSLSSWDYRCVPPSPA NFFIFLVETGFTVLARMVIS*PHDPPTL ASQSVGITGMSHCPWTDLIF**CKRDTLC IPMSLS**FKVPKGNLIWKLLGKFGGLP LGIONAYFWIV
4504	12555	A	5405	1	397	EMESSSVTQA*VQWHDALLQPPPPRFN RFSCSLSSWDYRCPPLSPANFCIFSRD/ MGFIVLARLVNS*PNDLPASASQSAGIT SVTHRIWSKIFRVDNDHYILFSSMELN VPTIVLCYHPQSSNMYS
4505	12556	A	5406	72	243	EPMTQPQVSMFSILRQPMKTTGMRIAMQE KVTQNTQSS*KJFRFPYLGIVSLVISI
4506	12557	A	5407	34	420	MLYSHDPELS*QVLTALYAVFPFVPV DFL*I*FPSALVSIGGSRL/PVLSHWFLDL RVFHF*FEKAHL*KLCGNP/WLSALLSTF KVM*ERLVDQ*LSMAKTTE*EPMTQVS MFSCGRVEEFRHPC
4507	12558	A	5408	3	316	FFNFSSRQGLCHPSWSAVTQSRITVASIF R/VQSSHLSSLGSW/DARHVPCLANF* FFCRD/RGLVMLPMSVSNSWAQAILPPW LPSIGITGVSHHVWLASLFV
4508	12559	A	5409	905	1291	RGADTCLGFQVSADLHHLFSLFCSVAQ AGVQWRNLGSLQPPPPGFKLSCSLSS WDYRHAPP/RPG*FFVFLVETGFTRVGQ AGL*LLTSGDPPASASQTA/RGL*GMSH LASPIYLDYFK*NFNKP
4509	12560	A	541	212	322	
4510	12561	A	5410	2	308	FLRHNLAVTQPGAQWRLSSLQPLPPEL KPSSHFSLPSSWEYRCEPPHPANF*FLVE TGFHHVAQAGLEFLASSDPPTSAFLNAG VTGVNHSAWLCFSYLL
4511	12562	A	5411	3	368	HRGESVWNICRWGTLR*GKIGKMTRAH CLEFIGALIVSITSPAPFEAPKWKNDLD *TLTHGRPVSVVLLAKKCDHG/KDECRN SSLKMGQIYMEHSFVG*IETSAKENVNF DEASRCLDAK
4512	12563	A	5412	73	380	GQALQWCVSVMCSCHSHPCV*VLWV CVCLCISMCMYSYACVLGYTKFGVCTE KNKQNCNCTGNRSTQGLPLNRHTGSFRF WLDHFPLASPKGTLRSLSP
4513	12564	A	5413	1	400	NSEGAAWIQPPAGEPTWQSGGQTQAG AMPFGDYS*SQGHPFLH/RAPPLTRNR RIFLRAPSPVLEDPRKPPSRGQQL*DA LHHVLVAQLREGMLGQPRPHPPPKPIK *SQHA*QLPAGEPEVGPGAGDR

4514	12565	A	5414	1	895	LRRARPRGWAGREAGPHPH*LRCRSSSA ALRPAPFTRPGTGETGLDRTEGRDQTSV NSAT/RLPNTPSRISAGGSSLQTRGLPGS SPQQENRPGDKAEAPKGQE/RMPPGDYF VIPRTPLSPPAPPPLTRNRRIFLRRAPSPV LERPEASKQRTATPLRRTAPCASGAAQ RGDVSGRKGVCKAGEQG*PPNNPRLRR SQAHARKRRRGDKFGVRPLQYCAF*DF WRRLSWQNPFFKATLPLLR*PLPPPLQA GTAPSPSSSQAN*MITARVTVTGWRAG SGTGSKGP*EPGRASFPS
4515	12566	A	5415	20	481	PTDRPGEHSKTPSLQKCKK*KLACSGT CL*S*ILGRLRQKDHLSPGVRGYNEL*SC HCTPSWVAE*GPVSK*IIQSPPRKE*S/LY NEKNPSN*HIVDSGEWFSFVFLGADRWG AGVLYQVRALSQMCNERGHKHCIPITI YLPYKPLCLPAL
4516	12567	A	5416	236	820	RRPQQAGKMKGSRIELGDVTPHNLFNCL ILCGVTSPNIKQLKRLNQVIFVSYNDKF YKDVLEVGETLTKLAYFNDAVGA VCCR VDHSQNQKRLYIMDTRDVWAPYRSLGI RELKC*IMCLKHLLKKMVLFDNIFLHVQI SNESAIDFYRKFGFEIAPKKNYKRIEPA DAHVLQKNLKVPSGQNADVQKTDN
4517	12568	A	5417	15	209	KASRKMQIETTLRYLSPMRLAKMQML INTSCW/RKSQETRTLIC*W*EGKMVQPL SKGIWPYLIQ
4518	12569	A	5418	1	498	VQTRQLVTSPSPMSSSD/EQSSSPQCTV PSKLLVDPLQHEFSKCGENDNNIPTPSNS NTPLKHSASFISATGTTEESRSVPQIKNGS VVSLSQSPGSRSSSAGGTS AVEVKVEPETS SDEHPVQCQENSDEAKAPQTPSALLGQK SNTD GALQKPSNEG VIEIKATK
4519	12570	A	5419	8	299	
4520	12571	A	542	1	518	MAVARLA AVAAWVPCRSWGWAAVPP GPHRGLSVLLARIPQRAPRWLPDLPLA YKKLKGKSPGIIFIPGYLSYMGTKALAI EEFCKSLGHACIRFDYSGVGSSDGNSEES TLGKWRK\NVLSIDDLVDGPQILVGSSL GGWMLMLHAAIARPEKVVALIGVATRCR YLSKDV
4521	12572	A	5420	1	3788	MMRLEGAEPGSQLQNIDEEVISSACRLV CEWAQKVLSQPFDTVLELARFLVKSHYI GTKSMAALTVM AAAPAGMKGITQPSAF IPTAESNSFQPQVKTLPSPIDAKQQLQRKI QKKQEQKLQSPLPGESAAKKSESATSN GVTNL PNGNPSILSPQIGIVAAVPSPI VQTRQLVTSPSPMS/CF*ROSSSPQCTG GHS AHAVCETGTKDSPERSQS WWSGF CPAPLPSDLTQTSEHQCTPIRSPTTVL
4522	12573	A	5421	288	668	VEKRQFLNSTADPECIRYPLTYFVLGQSL ALVTKAGVQWRNLSSLQPPPEFKRFSC LSLLSSWDERHAPPCPS*F/CVFFLVKTG FHRVSQDGLDLLTSNDPPTSASQSAGITG VTLAPSLFVLIH
4523	12574	A	5422	3	288	STFFFFFK*NLARLSRLECHGTISAHCNFR LLGSSD PALASQVA\GLRGTC HHT*LIF VPTVETGFRHVGGAGLELLAWVICPP*P PKVLR LQA
4524	12575	A	5423	1	781	MVHITGLCADNLQYQAGARIISVPEEDN SKSLENIFGGIIEENFPSLARDLDIQIEAQ GTPGKCITKRSSPRHIVIRLFVKVTKERIL RAVRQKHQV TYRGKPIRLTADFSEETLR ARRDWGHIFSFLKQNDYQPRILYAAKLS IIEGKIQSYSDK\QMLREFTITNGKLLKG AVSLVVALNR*NKSWKH KTHQNR TSLK HKSHRTYKTKIPLHDEYNDLRSALRPAS HTAYGSMLMILKSSLTLFKHGDEVVGRRAK

4525	12576	A	5424	2	392	KTKIIQMANKHRKRHQSQ**VRLMQKKI IMIHYPQWLKTSKSDMIKCCSGYGTTE IFTHYLWECKLLHLLWRMVWLALLKFK TDPHDPAPLLGTYPAECTCTPKAHT AALSIIVPSWEQPKYPQ
4526	12577	A	5425	1	181	
4527	12578	A	5426	1	2162	MALFVRLALALALALGPAATLAGPAKS PYQLVLQHSRLRGRQHGPNCVAVQKVI GTNRKYFTNCKQWYQRKICGKSTALGT ADVKGVSLLAVSVSDLGGEQMRKLPR EMMKLAEDGPAALPLSNLYETLGVVGS TTTQLYTDRTK\LRPEME/GGPGSFTIFA P\NEA\WAP\PAEVAGTPLVSNVNI NALRYHMGVRRVLTDELKHGMLTSM YQNSNIQIHYPNGIVTVNCARLLKADH HATNGVVHLIDKVISTITNNIQIEIEDTF ETLRLA\VAASGLNTMLEGNGQYTLLAP TNEAFEKIPSETLNRILGDPEALRDLLNN HIL/RSQAMCAESIVAGLSVETLEGTTLE VGCSGDMLTNGKAHSNKDILATNGVVIH YIDELLIPD\SAKTLFELAAESDVSTANDL FRQAGLGNHLSGSEARLTLLG\PLNSVF KDGNP\PID\ALTRDLLWNHMKDQLASK LYLHGQTLETLGKKLVRVYRNSLCIE NSCIAA\HDKRGRYGTFTMDRVL\TPP MGTVMDVLKGDNRFSMLVAAIQSAGLT \ETLNREGVYTVFAPTNEAFRALPPRERS RLLGDAKELANILKYHIGDNEILVSGGIGA LVRLKSLQGDKLVS\SA*KTNVVS\NKE P\VAEPDIMATNGVVHVNTNVLQPPAN RPQ\RGIDLADFA\EIFKQAFSVFPGAS Q\RSVRLAPVYQKYL\ERMKH
4528	12579	A	5427	1	410	FFFLKRRDLAVAQGTGVQWGDHGSLOPQ IPGRRQSSDLSFLNS*DHRLHSCSATFTS F*RS\HSAQAQGLEILATSNPPA*ASQGP GI*GVSHHTWQKATFCICLPANNILSCLN Y\SFYHKTNHNFMKTNNHKOI
4529	12580	A	5428	3	404	RLFYNFTIEMRFSLFVQGC\TNSLG*SD LVFASASAGITGVSYPHALASIVFVCVC V*WGSALVAQAGVQ*RNLSLQPLPPEF KQFSFLSLPSSWIYRHPPPLSFYLPKLKS CGLCTGIWAWRLFIFIGS
4530	12581	A	5429	2	240	TRSAVV*SQLTAALTS\VKQLSQLSLPR SWDYTHVPPCLSIFYFL*R*GLPMLPGLV SNSWTQAIFLPQPPKVLGLQA
4531	12582	A	543	3	604	VMSWAFTFIHSLTDSPRATSSPPSPIHE GDQDIIVLKF\KVLGGKNSGAWGRNGR PQGRRRGAR\FLRLNVGGCIYTARRESLC RFKDSMLASMFSGRFLKTDESACVID RDGRLFKYLLDY\HGEVQIPTDEQTRIAL QEEADYFGIPYPYSLSDHLANEMETY/CF KALTDFCDSYGLVCNKFTVWV\HLYLNT SGAS
4532	12583	A	5430	3	468	RWSFTLVAQAGVQ\RVILAHQAOPPPGFK RFCSLSLPSS/WDYRLAPPRLANF*FLVE TGFLHVGQAGLELPTSGDPPASASQSARI IGVPLCPGISRIFVQ\MALED\RD\SISLRL WFLSRHANLQCV\TSLWACQLLPCGTWR ARETKANTLPAVP
4533	12584	B	5431	151	344	YENESALNLYETCKVRTVKAGTLEKLVE HLVPAFQGS\DSLYVTIFLCTYRAFTTTQ VLDLLFKS*
4534	12585	A	5432	1	439	PSASSGQAGGFWSQSLFKQESSGFVRTS AESVLRQESLRGV\LVLELYWRGSEVC GSRQSLYGLSSGRGILQGPQEH*SP\CP SPPELKIPENANVFYAMNSTANYDFVLK KRTFTKGVKVKHGASFTLPRMKQKGLK IAKGIF

4535	12586	A	5433	77	444	GLGVPSSELQEIRVLPLTVCPSSVPPQYEN ESALNLYETCKVRTVKAGTLEKLVEHLV PAFQGSDDLSTYVITFLCTYRAFSASQQVLD LLFKR*A*ALHCTGCTRGPRPHPLAAG LGNAESPL
4536	12587	A	5434	1	3190	MVQRMWAEAAAGPAGGAEPFLPGSRRSR SVWDAVRLEVGVPDSCPVLHSTQLDP DLPRPEVGGGRGLLQKSASRVGSGGCRR APSNSRDHGWGFAPLNTVPGPAVTKAA AAQVDLFLRHCPCLHRWPVPYFTQFPPR ARSASLAFTMQAVGLCSRQSVPYLGNRL HRCIPCTVARQALDVPAPGCRALSSQSST QEIGEELINGVIYSISLRKVQLHPAGNKG QRWLGYENESALNLYETCKVRTVKAGT LEK
4537	12588	A	5435	1	435	EKINKIRWLPQQNAAHFLLGTNDKAIKL WKISERDKKAEGYNLKDDEGRLRDPFRI TALRVPIPKPMDLMVEASPRRIFANAHT YHINSISVNSDHETP/NIVDIKPANMEELT EVITAAEFHPHCNVFVYSSSKGTIRLCD MR
4538	12589	A	5436	204	397	VPILKPMGSYG*EASPRRIFANAHTYH/ NSISVNSDHETYLSADDLRINLWHLEIT DRSFNIV
4539	12590	A	5437	1	1463	PLRSWLPRLPDSQADIISTVEFNYSGLL AT/GDKGGRVVIFQREQEVLAPRRPAL P*SVSSFLSTSCREVWQGEFSLPFRERIK /GRPHSRGEYNVYS/TAQSHGTGGFDYL KSLEIEEKINKIRWLPQQNAAHFLLSTND KTIKLWKISERDKRAEGYNLKDDEGRLR DPFRITALRVPIPKPMDLMVEASPRRIFA NAHTYHINSISVNSDHETYLSAR*PGGIN LWHLGNHR*EAFNIVDKPANMEELTE VITAAEFHPHCNVFVYSSSKGTIRLCD MRSSALCDRHS/KSFEEPEDPK/SSRSFF S/EIISISDVKFSHSGRYMMTRGLPVR WKVWGPSTWEEAGPVGGPTRVHEYLR TKL\CSL\YENDCIFDKFECCWNG\SDSA IMTGSYNFFRMFDRDTRRDVTL\EASR ESSKPRASLKPRKVCTGGKRRKDEISVD SLDFNKKILHTAWHPVGQCYLPWLATN NLYIFQDKIN
4540	12591	A	5438	3	392	FCACFIGSKTPASCRAQGRPGFEFSPGSP SGPAGGKGVLKELEPSEM/PP/PEAGERK LERKTVPGRGAEYGPPLRLSYPAVNS HPLPSSVNGGDSNNSSQLPESHCPFFSP KEGPRKGEVPC LHATRA
4541	12592	A	5439	1	297	SLLGPPEPTTWT/PAPQDR*HGPC*GR*R KRRPSL*T*QWELASPP/REPMFVPKKEM VAIQPLQEEASVGPTPELLSGSCRSPISGI SILGNCPSLAPLT
4542	12593	A	544	3	533	AEGDQDIIVLKFLKVLGGKNSGAWGRN GRPQGRRRGARVFLRLNVGGCIYTARRE SLCRFKDYNVASMFSGRFPLQTDSEGAC VIDRDGRLFKYLLHYPSWRSSEFPQMRD TRGRPTGKRADYFGIPYPYSLSDHLANE METYSLRSNIELKKALTDFCDSYGLVCN KPTVWVLHYP
4543	12594	A	5440	3	11	HELILSPGPTQGQTPDEAGVIIRVLKNVP DLAILNSKDALDPRQPGYQPPNPHGPSS PPAAPRPRGA*GNPQLENASRSDRNPSQ GLRTRIRRPETPCGPPSPAGSSVAPPPS DVPPAFHSSGPPEPTTWT/PAPQDR*HGP *GDKRGAPGVAGEDPDQP*GTS

4544	12595	A	5443	1	702	MVAASAAIKFKTNMSLAIAIAGEHVEFA LIPVTAVKYTYTVIPALVMTWCLSYIER WVDSITPAVTKNFLKPMILVIAAPLAIL LIGPIGIWIGSAISALVYTIHGYLWLSVA IMGALWPLLVMGTGMRVFTPTIIQTIAET GKEGMVMPSEIGANLSLGGSSLAVAWK TKNPELHLDTPHTESPTPHDSNSHRP/PT AGVYNRSKAKSTDKDNDQTRWGNWR WSQRKYCLPL
4545	12596	A	5444	195	524	RALTTPRHLPTSQVASCNLCCLFLADLD TLHTESPTPHDSNSHRP/PTAGVYNRSK AKSTDKDNDQTRWGNWRWSQRKYCLP LIVLSFFQTKQNTGTGFRNFLSPFLMYV
4546	12597	A	5445	2	884	VPQFKPKLHQENGPGLARCDHQGAQP TRETWLQDRDREFQSQTFLRSRV*LV LQLQESQHSLERLREGQRLVEREQARMR AQQSLLGHWKHGRQSLPAVLLPGGPE VMELNRSESLCHENSFFINEALVQMSFN TFTKLNPSVIHQDATYPTTQSHSDLVRS EHQVDLKVDPS\QPSNVSHKLWTAAGSG HQILPFHESSKDSCKNDLDTSHTESPTPH DSNSHRP/PTAGVYNRSKAKSTDKDNDQ TRWGNWRWSQRKYCLPLIVLSFFQTKQ NTGTGFRNFLSPFLMYV
4547	12598	A	5446	269	483	
4548	12599	C	5447	5465	5719	MRLGKTHSTAGAWKMGLLRQADSTRG EKRGGKKAIIICVKSPGYQVAVWKY HSSLGVFEFKKTCVSMGRHDTEKKMS WERP*
4549	12600	A	5448	57	102	
4550	12601	A	5449	3	287	RALYYFL*FALFGLT*M*LVS*KLQIEYE KKQTLGQNDTGICDGTANTFRVMFKEP IEILPNVCYTACATLKVRVMHYVPDGL LNVAECVF
4551	12602	A	545	1492	1672	KQWHESHDPDYDRSPSQTGEGDEPCSWH RLFAQGDK*YEATACHRNLDWQKATDI SCNTNG
4552	12603	A	5450	1	594	
4553	12604	A	5451	1	768	SVEFPCRLSGAVVRWAEACQRQQLPV TFGNKQKVLGKALSIRFPLMTIEEFAAG PAQSGILSDREVVNLFHFTVNPKEPRVEY IDRPRCCLRGKECCINRFQQVESRWSYS GTSRIRFTANRRTSIVGLGLYGSVHGPA TDYQVNIQIEYEKKQTLGQNDTGFS GTANTFRVMFKEPIEILPNVCYTACATLA KGPDSHYGHKRI*RKVVHGGHLLASKD CFFLF*F/ALGINNGTSIEDGQIPEIFYT
4554	12605	A	546	138	257	IFLLYLKNKVQNK*EIKQHFLGKIMSRDN NTYLTWGTEN
4555	12606	A	5460	69	418	LKSKLSYKINL/QKSVTFVYTNSN*SEK/ QFKKEIQFTNSCKDN*KNYLGINVIKEVK /DLYN/ENY*ILIKNEKNPKK/WRAIPCSW FGRINIVNKFILPKVGYRSNAIPMKMPV TSRTRG
4556	12607	A	5461	2	216	YLFYLLPRLKCSGVITAHCSLYLPGSKY PPHSAS*VAGTTGPATMSS*YF*FFVETR FFLCSPGWS*GSSSDPSASASQIVKIGVS HCTCPRNFRNRLAQSLHFTGEETVPRKK GDLPWVYRQTQG*IPGPHRCQVLAF*PK DFLLSPHIYVSTSILWPPA*AQAQEVQWC DHSSLQPLPPRFKISSPLSLLSSWNHRSCH HVQLIFLIFCRDKVLPVFPRLVLELQ
4557	12608	A	5462	59	403	KRGFNFGAPDKREWGEFG*LKPWLPG* NNFSGQTLRRSGD*RKTPHGGVNLVF*E KTGFSNLGRGGLKPPPSGNTPAWPPKGV GITGASSPPVFCFLGFCENTNLRAKKK FI
4558	12609	A	5463	1	242	

4559	12610	A	5464	15	276	ASVTQAGVQWHNLGSLQPPPRFKQFSC LSLPSSWDYRRPPCPTNFLFLVLARMV SIS*PHDPPASASRSAEITGVNHHARPGLF L
4560	12611	A	5465	2	309	EQKFNKQKGRRALRCRGGLSGLLSCSK DVKVSFFSVARLQCSGLLAHCNLHLPGL SDSPASAS*VVGTPGQRHHAQLGFVFLV EMGFHHVGPVMVFDLLTSG
4561	12612	A	5466	1	1209	GGIPALDKNVAELTVMDVYDILSLVGHE VERVIDQHGCEAIARLMPKVVRVLEILE VLVSRHHVAPELDELRLLEAPLRVRVM DLIEKERKHQKELELVEDVWRGEAQDL LSQIAQLQEENKQLMTNLSHKDVNFSEE EFQKHEGMSENERQVMKKLKEVVDKQ RDEIRAKDRELGLKNEDEALQQQQLRL MKINHDLRHRVTVEAQGKALIEQKVE LEADLQTKEQEMGSLRAELGKLRLERLQ GEHSQNGEEEPETEPVGEESISDAEKVA MDLKDPNRPRTLQELRDVLHERNELKS KVFLQEEGLL*E*RNCRGKPNTPPTH RPPEDGPPSRESGIKATCLASFFPEVKKR LGQTHRGNVHIQGVPLDKLGKHTAMT GYTEQRTGSPCSIC
4562	12613	A	5467	1	388	FKDPEAVRALTCTLLREDFGLSDIPLERL IPTVPLRLNYIHWVEDLIGHQDSDKSTLR RGIDIGTGASCIYPLL GATLNGWYFLATE VDDMCFNYAKKNVEQNNLSDLIKVVKV PQKTLLMDALKGSI*V*SMTFCMCNPPF FANQIGSQVE*YSRNP RP PPSVNTGGI TEIMAE GGELEFVKRIHDSLQKKRLRI DMAALLIGVCSEVSGRKDWIQQ LAPRW YSCMLGKKCSLAPLKEELRIQGVPKVTY TEFCQGR TMRWALAWSFYDDVTVPVHE GRLAVGGVTSDSQNKGSAPPSKRRKLE KPRKPITFVVLASVMKELSLKASPLRSET AEGIVVTTWIEKILTDLKIASINEFPVEK RKSAFS*RP*KTPGFI*GERKESV*SDSKS TLRRGIDIGTGASCIYPLL GATLNGWYFL ATEVDDMCFNYAKKNVEQNNLSDLIKV VKVPQKTLLMDALKGSI
4563	12614	A	5468	72	680	LEEPRPQSLEGHTEGERAALPGKAKVVE GRVADDGVPGQPAWPGAPHTAAFQPV HALGSTRASQQGSLGDC*AACR*Q*KAP *VPKQGT*QERSSTK/PRAVPSGHWAGG SGCRCSE*RAALG*TTEPQQSGELPGPPW PLEGAAHPLSAETGSCVPPRAFSGQKQ PRGPG*AAEGPHGDFPQTGDRHCPPSSTE PSGMTGR
4564	12615	A	5469	259	373	
4565	12616	A	547	5	960	PTFSRAVATMFSRAGVAGLSAWTLQPQ WIQVRNMATLKDITRLKSIKNIQKITKS MKMVAAAKYARAERELKPARIYGLGSL ALYEKADIKGPEDKKKHLLIGVSSDRGL CGAIHSSIAKQMKSEVATLTAAGKEVML VGIGDKIRGILYRTHSDQFLVAFKEVGRK PPTFGDASVIALELLNSGYEFDEGSIIFNK FRSVISYKTEEKPIFSLNTVASC*QHGV YDDIDADVAAKITQEYNLANIYYSLKE STTSEQSAIRMTAMD NASKNASEMIDKVL TLTFNRTRQAVITKELIEIISGAASSVKKE NSAS
4566	12617	A	5470	1	336	

4567	12618	A	5471	1	1396	GAHAPHNPVMPASMGSAVNDALKRDK DAIYGHPLFPLLALVFEKCELATCTPREP GVAGGDVCSSDSFNEDIAVFAKQVRAE KPLFSSNPELDNLMIAIQVLRFHLLLELE KGHELCDNFCHRYISCLKGKMPIDLVID ERDGSSKSDHEELSGSSTNLADHNPSSW RDHDDATSTHSAGTPGPSSGGHASQSGD NSSEQGDGLDNSVASPGTGDDDDDPDKD KKRQKKRGILPIVFPNIMRAWLFQHLTH PIYPSEEQNIQLAHDGTGLTIFQVNNWFIN ARIGIVQPMIDQSNRAGFLLDPSVSQGAA YSPEGQPMGSFVLDGQQHMGARPAQTY EWDGA*IWAWMGNGTTC*PSSC*RHSQ SKGEVCRAWPGDYVSQGGPMGMSMAQ PSYTPQMTPHPTQLRHGTPNAFHILPSL PHHPGLD*LHGGTPYPTWD*LC*AQSPT MLNSVDPNVGGQVMDIHAQ
4568	12619	A	5472	3	862	TMRPDIDNSQAAHQPPGRLPNSRKLKKT RRQMCCVQTKKRIARLPCCRNTPTTAR SHPGRDCAKNT*SLRSPGGDCH*QGNT TWRMPMAR*LSGDESSEGRSPVRTIICHQP SRSQSPVDRLQQLPASQSTQLPCSSSPQ ETTQSRMPPEARRLIVNKNAGETLLQR SARLGYEGSVLYCLENKICDVNHRDNA GYCALHEACARGWLAKFVRHLLEYGAD VNCSAQDGTPLHDAVENDHLEIVRLLL SYGADPTLATYSGRTIMKMTHELMKEF LTDLFK
4569	12620	A	5473	1	444	KLLRWLRQENCLNLGGGSCSELKSHHC TPPWMIEGDSI*KKQNKTKTRKRKPQGS HS/TLGGPDWV*QNCEVSQVLPISHFPL LQDILPPLPYLGANGQAGEQGATDGH*/R TTTESHRASVGCRIPWLCQRPLALALSFF LCEMRITP
4570	12621	A	5474	2	330	EMSFALVAQAGVQRHNLGSLPLPPGFK *FSCLSLPSSWDYRYAPPTPANFAFLVE TGCLHVGQAGLKLPSGNLPTSASESAG IIGVSHCAQPGTATHSNTVLSGLFC
4571	12622	A	5475	2	363	ELDTLCDLYEP*PSPSIIFINTRRK/VDWLT EKMHardFTVSAMHGDMQKERVIM REFRSGSSRVLITTDL/RIGRGGFRGRKG VAINMVTEEDKRTLRIETFYNTSIEEMP LNVADLI
4572	12623	A	5476	112	434	ARGIDVQQVSLVINYLPTNRENYIHR*A *IWNTPLPLHTWPSLGLKLLIFLIPFLVFQ IGRGGFRGRKGVAINMVTEEDKRTLRI ETFYNTSIEEMPLNVADLI
4573	12624	A	5477	3	724	NSNVEREEWKLDTLCDLYETLTITQAVIF INTRRKVDWLTEKMHardFTVSAMHGDMQKERVIM REFRSGSSRVLITTDLL/A E*RELIKAEGRIQGSLSKGTSVPLRKV AAWNIIWHA*GLWGTGMLISSAFLGCPH GCLSVFPPG*SVLRAHAEELSFLTHARGI DVQQVSLVINYLPTNRENYIHRIGRGG RFRKGVAINMVTEEDKRTLRIETFYNTSIEEMPLNVADLI

4574	12625	A	5478	1	1274	MSASQDSRSDNGPDGMEPEGVIESNW NEIVDSFDDMNLSSELLRGIYAYGFEKPS AIQQRAILPCIKGYDVIAQAQSGTGKTAT FAISILQQIELDLKATQALVLAPTRELAQ QIQKVVMALGDYMGASCHACIGGTNVR AEVQKLQMEAPHNIVGTPGRVFDMLYR K/YTLSPKYTKMFVLDEADEMLSRGFKG QIYDISKRLNSTTKVVLSSATMPFD\VL EVTKKFMRGPPFRILVKKEELTLEGIRQ\F YINVEPEEFNLDLTCDLYENLDHHPRQ VIFHQPPGGKVDW/LSPEKMHA\RDFTV\ SAMHWRFWTQKERRT*L*REFRSGS*PE F*ITPLTLPAQRAFDVASRVSF*SFKLMTL PPPTRGKLLIHRUGSRVDRFGRKGVPINM LTE/EKTKRNLIEDIETFYNTSNEEMPLNV A
4575	12626	C	5479	114	302	MKEEILKKTAEYKRAMXNKKXKQKHHS WVXKAPSRPFIKWETRLGLKTAHSPNVF LQQGQR**
4576	12627	A	548	1326	1780	YLSKLPYFELESIAAARSRPTAQRHPRER KLKPARIYGLGSLALYEKADIKGPEDKK KHLIGVSSDRGLCGAIHSSIAKQMKSEV ATLTAAGKEVMLVGIGDKIRGILYRTHS DQFLVAFKEVGRKPPTFGDASVIALELL NSGYEFDEG
4577	12628	A	5480	1	2043	
4578	12629	A	5481	153	332	QTFVLAEGKH*ENE/PVFKLNVSPLEW REGAFPPKSDVSASFISIALLYNSAAFSKS PPS
4579	12630	A	5482	2	904	HILLVNLKHLQLCTRNRNIFKLFHFRKK SFMGHQRAIKKGNLYGFALLRRRALQ VEELTLGKDTDPDNARTLNELGGLYYLQN NLETADQVLKRFL*MRERVLGPDHPDC AQALNNGAGSYAMKKNQYDKPEDLYK RALDIGRRALAPDHPFLAYTVKHLAILY KKMGKLDKAVPLYELAVEIROKSFGPK HPSVATALVNLAVLYSQMKKHVEALPL YERALKIYEDSLGRMHPRVGETLKNLAV LSYEGGDFEKAELYKRAEIKEAETSL LGGKAPSRHSSSGDTFSLKNQLHFS
4580	12631	A	5483	2	331	PGQHGETLPLLKIQKLAGQGGS*SEPL RRLRQENCLNLGGRGCSETRSCHCTLV WVTGRDSISKQKTAVDQAEERVSELEDR LFENTQSEKTKEKRIKISTLRGFRK
4581	12632	A	5484	26	117	AKGQVALGRPGARMQGGSKVVGVLG PGSRSEAGTVPSYPAAQTRPHPPQPLLIF RSPGVVPNGHQPPNSTASSKQCNLRC WGLPTVARHPKSGQRPO/PRPTR*PGPSP QGPTPGRKNPERP*LVQQ*PCWAREPV
4582	12633	A	5485	111	270	
4583	12634	A	5486	240	406	
4584	12635	A	5487	128	657	ESESYWAICSRKRSPVLSSYGGHIYLKIR CPVDS\SVGRRGFLTIFEDVSGFGAWHR RWCVLSGDCISYWAYPDDEKRNPIGRI NLANCTSRQIEPANREFCARRNTFELITV RPQREDDRETLSQCRDTLCVTKNWLS ADTKEERDLWMQKLNQVLVDIRLWQPD ACYEPIGKP

4585	12636	A	5488	1076	3513	IKALSSSAEDASLVNASISSSVKATSPVKS TTSITDAKSCEGQNPPELLPKTPISPLKTGV SKPIVKSTLSQTVPSKGELSREICLQSQSK DKSTTPGGTGKPFLERFGERCQEHSKES PARSTPHRTPIITPNTKAIQERLFKQDTSS STTHLAQQLKQERQKELACLGRGRFDKG NIWSAEKGGNSKSKQLETKQETHCQSTP LKKHQGVSKTQSLPVTEKVTENQIPAKN SSTEPKEVIREIEMSVDDDDINSSKVINDL FSDVLEEGLDMEKSQ/AGDGSSISR/TA AKNRKMH*ISPQCLYLHHWHKQLV*V* CPHLDWN*KTPAEVMKVQNQENSKELV S/RAESGDSLGSSEDRDLLYRSQRFKETE RPSIKQVIVRKEDVTSKLEKNNAFPCQ VNIKQKMQELNNEINMQQTVIYQASQAL NCCVDEEHGKGSLEEAEAERLLLIATGK RTLLIDELNKLKNEGPOQRKN*G*S/APSEF IAIPKDQFTLSEIRLP*KADFVCSTVQKPD AANYYYLILKSRSENVMVATPLASTNS LNGDALTFTTFTLQDVSNDFEINIEVYS LVQKKDPSGLDKKKKTSKSKKSNHSSV MASPGGLSAVRTSNFALVGSYTLSSLSSV GNTKFVLDKVPFLSSLEGHYILKIKCQVN SSVEERGFLGCPGGGRLQPKRQTIFEDVS GFGAWHRRWCVLSGNCISYWTYPDDEK RKNPIGRINLANCTSRQIEPANREFCARR NTFELITVRPQREDDRETLVTNAGTHSV FTKNWLSADTKEERDLWMQKLNQVLC DIRLWQPDACYKPIGKP
4586	12637	C	5489	135	206	MFIFAFGKSIFKITTTFQSTIVG*
4587	12638	A	549	20	403	KVQGPHASAHASGEGSLTIIPVTRSPLAT MNHIVQTFSPVNSGQPPNYEMLKEEQEG AMLGAPHNPAPPMSTVIHIRSETSVPDH VWWSLFNTLFMNTGCLGLITFVYSVKA RDRKMGRRTRPGAQG
4588	12639	A	5490	67	388	DAVFA/GAMPTMASVKLSTLHPIVNHPI YEDADLRPGCSMLEIWDVEDPSNAANPP LRSILLEDARPKMPVFQNSVYRVLKVN* EGNYPLHYGTMPCKVKNHPLAYLH
4589	12640	A	5491	3	107	SIKLSTLHPIVNHQHYEDADLRARTKIV YSTYSRTSAKEVRDKLELHVNYVLEE AWCVVRTKFIQDGPVLAQAEK*CQM VTQIYKKYSNALEMPGCSMLEIWDVED PSNAANPLCSVLLEDARPYFTTVFQNS VYKVLKVN*EDADLRARTKIVYSTYSR
4590	12641	A	5492	3	289	YYLSPPEMGAIFEDPAHVVVYIIFMLGS CAFFSKTWIEVSGSSAKDVAKQLKEQQ MVMRGHRDTSMVHELNRPKVKLRRWK GEGRHFTKRILFY
4591	12642	A	5493	2	652	RVDLPIKSARYRGQYSSYPIKLFYTSNIPI LQSALVSNLYVISQMLSVRFSGNFLVNL LGQWADVSGGPARSYVGGLCYLLSP PEMGAIFEDPVHVVVYIIFMFGSCAFFS KTWIEVSGSSAKDVS*TA*KEQQMVMR GHRDTSMFHELNRYPATAAFGGLCIGA LSVLADFLGAIGSGTGILLAVTIIYQYFEI FVKEQAEVGGMGALFF
4592	12643	A	5494	58	596	KFIFRDGGSLCCPSWT*TLGLQQSSHMSL PSDWDSRVRAKPNFPFSS*HSFSALYM HLPRSPLNFIQPCRFYKGPAGLSRGGRE* HGL*SDFSVANLWQLGFLWQALTDYRA ELPGMDPIISTHLAKLYDNLLEQNLIRVIE PFSRVQVRTLWGLHFWPGILTVATSLPH LSRMGTHF

4593	12644	A	5495	2	951	PRVRPRVRPRVRSSRPSRDPSPRRARLR WQLRWKPRWCPRPPKTPGVWKRPRTRP RSSAGGSTGFPSSPILRRSPSTRRRSSRKA SPTATRATGTPPRQAQRKTARAAGRRA SPGIATAGTRSMISMRPGRKPSNPSWEG RTNEETSSLSRLKPVSPGTITCPLRTPGSL LKDSKIPISIKHLTNLPSSHPVVHQPSRS EMPRTKIPVSKVLVRRVSNRGLAGTTIR ATACHDSAQKVVRSSRPRWMGPMRNT TFPWETTKVSFAFPKESLL/WTPPVPRPA PERGPRRSLCPE*GPDNTRKRDATRGFL SR
4594	12645	A	5496	1	279	VQWHDLG*PQPPPGFKRFSCLTTP/RSS CDHRCVPPTPD*FLCFLVETGFHYVGQA GLELLTSGDPPTLASQSAGIAGVSHHARP NFLIFFFN
4595	12646	A	5497	2	291	FLVARVAGSGDGLTLFPRLECTSVITAP ASISWAQGDLPASASQVAQTAGACHHS WPVFTSCVEMGFPCVP*AGLELLGSSPP PQPPKMFRLOA
4596	12647	A	5498	2	345	SHSVAQIGVQWRDLGSLQSPPGFKRFS CLSLPSS*DYRHAPVHPANFFFLVEMWL PRVSDGLDLLTSDLPSSASQSTGITGM SHRARPNFCIFSRDRVSPCWPVWSQTPD LR
4597	12648	A	5499	2	311	QVLENPHFPRG*APPPSW*YPSGFYKSNR PRACFNPRSLAPRGPHQGGFFPPGPLAFP PPFLGPPYGSRRFPSEHFQKVQPLNQPPF LSLKNPP*RFPPFF
4598	12649	A	55	730	950	SFLKDIGLFKIIYFFFFFETGVSFCHPRLE CSGETMAHC/SLTSLGPDPTAS*QAG ITGVHHHARLIFF
4599	12650	A	550	2	431	DAWAMNHTVQTFSPVNSGQPPNYEM LKEEHRVGCAGAAPTTLFPPTSTLIHNRQ RDLPCPTHVWSLFNTLFMNPACCLGFQ *EFAYSV\KSMDRKMVGDTVGA\QAYAS TAKCLNIWALILGILMTILLIVPVLIFQA YG
4600	12651	A	5500	1	2500	MEDAWGIRKETGRVKEEAETGTGWN NWRNVEKSSMSRKVKAARPGFKKLPM SDIPPCKTIKDLLPKEKSSTEAVFHTVVL ERHESPDIEDFSFKEPQKNVHDFECQWR DDTGNYSKGVLMQAQKEGKRDQDRRDIE NKLMMNNQLGVSFHSHLPELQLFQEGK MYECNQVEKSTNNGSSVPLQQIPSSVQ THRSKKYHELNHFSLTQRRKANSCGKP YKCNECGKAFTQNSNLTSRRHSGEKP YKCSECGKTFTVRSNLTIHQVIHTGEKPY KCHECGKVFRHNSYLATHRRHTGEKPY KCNECGKAFRGHSNLTTQLIHTGEKPF KCNECGKLFTQNSHLISHWRIHTGEKPY KCNECGKAFSVRSSLAIHQTIHTGEKPY CNECGKVFRYNSYLGRHRRVHTGEKPY KCNECGKAFSMHSNLATHQVIHTGTGPF KCNECSQVFTQNSQLANHRRHTGEKPY YKCNECGKAFSVRSSLTTHQAIHSGEKP YKCIECGKSFTQKSHLRSHRGIHSGEKPY KCNECGKVFAQTSQARHWRVHTGEKPY YKCNDCGRAFSRSSLTFHQAIHTGEKPY YKCNECGKVFRHNSYLATHRRHTGEKPY YKCNECGKAFSMHSNLTTKVIHTGEKPY YKCNCQCGKVFIQNSHLANHQRTHTGEK PYRCNECGKAFSVRSSLTTHQAIHTGKK PYKCNECGKVFTQNAHLANHRRHTGD KPYRCTECGKAFFRQGVTPGPSLECN GTILAYSSLFVGGSDTHISLLRSQDDRQVL PHLANPNFREGLLPAFLLCSDSHFLQFC SQFAPRKTOGSGSVNNIQANIAK

4601	12652	A	5501	1	2508	MPHQLGPNLVPDIPPKCTIKDLLPKEKSS TEAVFHTVVLERHESPDIEDFSFKEPQKN VHDFECQWRDDTGNYKGVLMQAQKEGK RDQRDRRDIENTKLMNNQLGVSFHSHLPE LQLFQGEKMYECNQVEKSTNNGSSVS PLQQIPSSVQTHRSKKYHELNHFSLLTQR RKANSCGKPYKCNECGKAFTQNSNLTS HRRHSGEKPYKCSECGKTFTVRSNLTH QVIHTGEKPYKCHECGKVFRHNSYLATH RRIHTGEKPYKCNECGKAFRGHSNLTT QLIHTGEKPFKCNECGKLFTQNSHLISHW RIHTGEKPYKCNECGKAFSVRSSLAIHQ IHTGEKPYKCNECGKVFRYNSYLGRHRR VHTGEKPYKCNECGKAFSMHSNLATHQ VIHTGTKPFKCNECSKVFTQNSQLANHR RIHTGEKPYKCNECGKAFSVRSSLTTHQ AIHSGEKPYKCIECGKSFTQKSHLRSHRG IHSGEKPYKCNECGKVFAQTSQLARHW RVHTGEKPYKCNDCGRAFSRSSLTFHQ AIHTGEKPYKCHECGKVFRHNSYLATHR RIHTGEKPYKCNECGKAFSMHSNLTTTHK VIHTGEKPYKCNCQCGKVFTQNSHLANH QRTHTGEKPYRCNECGKAFSVRSSLTTH QAIHTGKKPYKCNECGKVFTQNAHLAN HRRHTGEKPYRCNECGKAFRVRSSLTT HMAIHTGEKRYKCNECGKVFRQSSNLA SHHRMHTGEKPYKCEGGEVIRYNSLLSH QLNHS*QNPYKCSDSGQSLMS*SINRYER P*ARD/YHVNICGRGSIQASQVTRHODFI SLMKRNKCNMHPEAITQ*PMVSEDS
4602	12653	A	5502	3	361	PKKNYFPLHLKGPKTKGVFFYSSSSSSQK GVSLCNPRWNAVGPFGFPSTPPSLVK*F LCPNPWS*CDFRPPSPRPGYFCFFNKNKA LLARVVFN*PQVIPLFQPPKMVGFGGLT PLAG
4603	12654	A	5503	32	392	FLFLSFPPLSFKMTLNDAMRNKARLSITG STGENRRVMTPEFPKAVHAVPFT*SPGH GNGMSSVTESLGLLRTLLSALPQWFSC VFIVQSGERHPSILEDFFSQPKNSLNMWS SILKL
4604	12655	B	5504	473	524	MGEAKKTGEQVRVLPRTX*
4605	12656	A	5505	1	627	LVSSFFFFFFCRDRVSPCCLGWSPTWSPG LKRSARLGLPQCWDSRRELPRPAYLLFL LSWGSPSPSAWQEGG/WCKKKRGTEHPE VPSIPSCTCPSPTVQQ*S/GEKQVQETGRQ S/LGEAKKTGVQWHDQGSLOP*SGLK*S SYLSFLSS*DHRCAPTTPD*FL*R*DPTML PRLVLNSWAQ/CDHPALASQSTGHIHLSH RAWACDQNSHFF
4606	12657	A	5506	3	649	RVSSVMSTSLEEIFNCIFDAHVPPLWGKA YPSQKPLAAWTRDLAMRVEQFELWASR ARPPVIFWLSGFTFPTGFLTAVLQSSARQ NNVSVDLSWEIFVSTVE*QAT*VYPPKD GCWVRGLYLEGAGW/DPEELLGGRQS PCKLVWLMPTIHFRAESRKKSPKGMYS CPLYYYPNAGSSDRASVFIGIDLRSGA MTPDHWIKRGTAALLMSLDS
4607	12658	B	5507	167	377	XKLIQFGLMKNLIRRLQKYPVRVTRREEQ SHPARLYTGCHSYDEICCKTGMSYHELD ERLENDPNIICWK*

4608	12659	A	5508	2	1247	TPLREERGATGLGPVIAMGSGCRICIFFS EFHPTLGPKITQVPEDFISRELFDTVQV YIITKPELQNKLT/VLESSFVSMEESKQK LVPIMTILLEELNASGRCTLPIDESNTIHL KVIEQRDPDPVAQEYDVPVFTKDKEDFF NSQWDLTTQQLPYIDGFRHIQKISAEAD VELNLVRIAQNLLYYGVVTLVSILQYSN VYCPTPKVQDLVDDKSLQEACLSYVTK QGHKRASLRDVFQLYCSLSPGTTVRDLI GRHPQQLQHVDERSEENLLGHLGVT*GK LDPLCLSGALDHGALPIQAGFLEMMGYR DKIEGRLQERVGLPERRPGQGVTPSSDP HPRKLIQFGLMKNLIRRLQKYPVRVTRE EQSHPARLYTGCHSYDEICCKTGMSYHE LDERLENDPNIICWK
4609	12660	A	5509	1	512	CTLPIDESNTTH*KVIEQRQTPRVAQEYD VLVFTKDKEDFFNSQWDLTTQQLPYID GFRHIRKISAEADVELNLVRIAQNLLYY GVVTLVSILQYSNVYCPTPKVQDLVDDK SLQEACLSYVTKQGHKRASLRDVFQYD EICCKTGMSYHELDERLENDPNIICWK
4610	12661	A	551	137	838	SSGICALIWPWPAHLTNARKRKLRLK RNYWRKGEGSLRTIPVTRSPVTMNHIV QTFSPVNSGQA\PNYEMLKEEQEVAML GAPQKPCLPCEPPVIHNRSETSVPDHV\V WSLFNTLAFMNTC/CRLGFIAFA\YSSEVS GTRKMVGEVTRAQGLLPPPKCLNIWA\ LILGVFMNQFLINHPPPSVGSSRPSDRSG RHHLRPRELCPVEPVSVQVKNISIFHSLALP PEARKFCEP
4611	12662	A	5510	1	474	HTIHLKVIEQRDPDPVAQEYDVPVFTKD KEDFFNSQWDLTTQQLPYIDGFRHIEKIS AEADVELNLVRIAQNLLYYGVVTLVSIL RKLIQFGLMKNLIRRLQKYPVRVTREEQ SHPARLYTGCHSYDEMCCCKTGMSYHEL DERLENDPNIICWK
4612	12663	A	5511	199	562	KESPGPGRHPVPLIPHP*ES*IPVRAL*KN LIQATYRKYPVRVTREEVRAHPARLYTG CHSYDEICLQDRWRQAGSQGGFRAGCA RPRPLTSPPPHPGMSYHELDERLENDPN IICWK
4613	12664	A	5512	1	1224	EFGTRPLREERGATGLGPVIAMGSGCRIE CFFSEFHTLGPKITQVPEDFISRELFDT VQVYIITKPELQNKLTVTAMEKKLIGCP VCIEHKKYSRNALLFNLGFVCDQAQKTC ALEPIVKKLAGYLTTLLESSFVSMEESK QKLVPIMTILLEELNASGRCTLPIDESNTI HLKVIEQRDPDPVAQEYDVPVFTKDKED FFNSQWDLTTQQLPYIDGFRHIQKISAE ADVELNWVRIAQNLLYYGVVTLVSILQ YSNVYCPTPKVQDLVDDKSLQEACLS YVPKQGHKRASLRDVFQLYCSLSPGTT VRDLIGRPPPSQHVDERKLIQFGLM KNLIRRLQKYPVRVTREEVRAHPARLY TGCHSYDEICCKTGMSYHELDERLEND PNIICWK
4614	12665	A	5513	2	313	FETESYSVAQAGVQWWDLGSLQPPPGF KRFSCSLSSWDYRRPPRLANF*FLVE TGFFHVGGAGLDLLT/S/GDPLASASQSA GITGLSHCAWQTTYITFNHK
4615	12666	A	5514	731	1156	SVLGLISDTSNTFLSFFFFFEMESHSLAQ PLQWHYLGSLQAPPPCKLRLPGSRHSPA SASRVAGTTGARHHARLWFGFLVEAGC HRVSQDSLDTLTS*STCLKP/AQSAGITRR EPPTPGLFFFLKMESCSVGPRLGVSQSW
4616	12667	A	5515	3	365	LLNSRPVDFFFFFFFLSHSL/DSVVQAGV QWHNLGSRLLQSPPPGSMFSCSLSS WDYRHPPPYLANFFFFCIFSRL/MGFTML ARMVSIS*PCDLPALGSQSAGITGVSHHA

						WPAYFYFQ
4617	12668	A	5516	400	619	MPEQICPLETSQS*INNLPKKEFFMSI*CP GFERSYFFF*CC
4618	12669	A	5517	274	693	KYQILLYNGDVIDMACNFMG\DEWFVDS LNQ/KGKVEIPGPGIEPAGEEWGAGMPG SGQLAAWLWAHRGQVWRNSQP*GLAG SCEQGCSCCRLMSFLVGQMEVQRRPW VKYGDSGEQIAGFVKEFSHIAFLTIVGT GPAER
4619	12670	A	5518	3	766	NRLWSSLQTHCCSQNKCNFYDNKDLEC VTNLQEVARI/VGNSGLNIYNLYAPCAG GVPSHFRIYKDTVVVQDLGNIFTRLPLK RMWHQALLRSGDKVRMDPPCTNTTAAS TYLTNPYVRKALNIPEQLPQWDMCNFL VNLQYRVFLPSQNSR\YLLKSSQKYQIL LYNG\DVDMA\CNFMGDEWFVDSLNOQ\ MEVQRRPW\VKYGDSGEQIA\GFVKEF SHIAFLTIGAGH\MVPTDKPLAAFTMFS RFLNKQPY
4620	12671	A	5519	2	279	FLRDVILL/C/HPGQSVVV*S*LTVSPTLP GSSDPPSSAFNCWEYRCVTPCQLMF*FT LLSIGIGSTLPRPVLNSSPQVILAPWPKV LRLQE
4621	12672	A	552	1	528	
4622	12673	A	5520	2	1045	CPSRPCRRRPPPPRGPKPRASYPGGPAP/ GDKKKRPPQ\GPRGSSAPGPPPOEAA GPAPRPGQDAAAGPSGR\PPQALPS\PR GPQPRAPRGRQAPATAQRGPPMRRPRR GRGPPPRAPP/PGAGPC/PLRRCALLPESH PRGRPGHPEASSGEAAAGAAPQALPLTL GRTQAPTRPVSPG*GRGPAEGRPRQR/PP THPPPPA\GPPRASARRPAAARRPAGSPA QPAARGPAADAQGVAAQRAAQVRRRG VRGGARGGGRGP/RGPRGRP/PGSSGRQR PLSGVSAQAGPRGAQPDSPDGHGPPPAL ASRQPGPFSFTPVVSTPDACLCPHSGLL ASPSIHAVRGELSN
4623	12674	A	5521	84	202	
4624	12675	A	5522	3	576	ILGFPPFVVRWGSHTVAQAGVQWCDHGS LQPRSPGVK*SSHLSSLGSWNHRHATTT PG*CFFSRIRSHCVAQAG*LLTSNHPP ALASQTVGITGVSHWTWPNTGFSVLTA TNKNLKFFHYAISKCLVRAKLSSRLKIE ERNKALSAPVVSISIFDRVLRLLGYSAS DWQPEFVETAVSNFVIYGIFRGQ
4625	12676	A	5523	177	904	ESHLQNDTAAHPLLNGTECGVSPPLTS RQGVRRRTQSSTSRIC/SPVIPKQTFPPQ VLHMSAGVALDSPAPPPRPWQPPQGF AHT*DRKEEGDPIGIWAPEGKSCTPKPPP PSLPRTSPGWKRALQKGDTCGPGPSTAS TPHPLILGPSQAPPKPKPP/PSPGVPACAP S/YPALPAPISLTEKEQARAPGGQDGAG HTVGGGGAAGRREGQNKTFSGFFFSFF FLPFTLVVLLFLSFL
4626	12677	A	5524	1	173	FLGPSKFPPPGFPFPPPPPRERGNQRSSS PPSSSS/P/PSQKKTGVPPG*PGGFFPPP
4627	12678	A	5525	1	390	LILNTRKPAFIDLLHNDPKEQAYADLV SAYTLNSMFWLYLATQGVNPTDHPVKH ELDTT/RACMNRSSSPDKKKAGLLYRG AASKFVKNALWEPKSKNA*KVGNKGKS PTSLFGFDVHIFKNMLPPP

4628	12679	A	5526	1	1548	MPERDSEFFSNPLAPDGHVDVDDPHSFHQ SKLTNEDFRKLLMTPRAAPTSAPPSKSR HHEMPREYNEDEDPAARRRKKKSYAK LRQQEIERERELAKEYRGRAKERRDGVN KDYEE TELINTTANYRAVGPTTKADKSA AEKRRQLIQESKFLGGDMEHTLVKGLD FALLQKVRAEIASKEKEEEEELMEKPQKE TKKDEDPENKIEFKTRLGRNVYRVLFKN/ KAYKRNELFLPGRMAYVKVDCPTMEA QTILTTNDIVISKLTQLLSYLRQGTRNKK LKKKDKGKLEKKPAEADRSIFEDIGDY TPSTIKTPWDERERYRERERDQ/RDRDR DRERERERDQERERDRERERDRERIGPG SAKELIKSINEKFAGSAGWEGTESLKIAE DKKQLRDFFGMSNSYAECYPATMDDM AVDSDEEVDYSKMDQGNKKRTLSRWD FDTQEDYSEYMNNKEALPKAAFQYGIK MSEGRKTRRFKETNDKAALDCQWKISAI IEKRKKMEADGVEVKRPKY
4629	12680	A	5527	1	3162	
4630	12681	A	5528	2433	2540	
4631	12682	A	5529	1	1739	MPERDSEFFSNPLAPDGHVDVDDPHSFHQ SKLTNEDFRKLLMTPRAAPTSAPPSKSR HHEMPREYNEDEDPAARRRKKKSYAK LRQQEIERERELAKEYRGRAKERRDGVN KDYEE TELINTTANYRAVGPTTKADKSA AEKRRQLIQESKFLGGDMEHTLVKGLD FALLQKVRAEIASKEKEEEEELMEKPQKE TKKDEDPENKIEFKTRLGRNVYRVLFKN/ KAYKRNELFLPGRMAYVKVDCPTMEA QTILTTNDIVISKLTQLLSYLRQGTRNKK LKKKDKGKLEKKPAEADMKYVS*PLA SDQREGVCTFLVSGILGRC*HENLEKWS GGVKVYV*IWPA SLDLHFP SIFEDIGDYVP STTKTPRDKERERYRERERDRERDRDRD RERERERDR*HERERDREREEKKRHSY FEKPKVILLGPWTFDKGPGSTKELIK/SFI EKFAGSAGWEATESLKKPED\KKQLGD FLGMSNSYSECYPATMDDMAVD\SDDEE VD\YSKMDQGNQEGGP*ARWDL*FPQE EYKRVFVTTKEALPRVAFQYGIKMS\E GRKT\RRFKEPQ*PKQSLIRQWKKI
4632	12683	A	553	1	1682	MDNLSDTLKKLKITAVDKTEDSLEGCLD CLLQALAQNN TETSEKIQASGILQLFASL LTPQSSCKAKVANIIAEVAKNEFMRPCV DAGLISPLVQLLNSKDQEVLLQTGRALG NICYDSHSLQAQLINMGVIPTLVKLLGIH CQNAALTEMCLVAFGNLAELESSKEQFA STNIAEELVKLFKKQIEHDKREMIFEVLA PLAENDA IKLQ LVEAGLVECLLEIVQQK VDSAEKEGGITELKTGSDLMVVLLLGDES MQKLFEGGKGSVFQRVLSWIPSNNHQL QLAGALAIANFARNDANCINHMVDNGIV EKLMDLLGRHVEDGNVTVQHAALSALR NLAI PVINKAKMLSAGVTEAVLKFLKSE MPPVQFKLLGTLRMLIDAQAEAAEPIGE RMLKLVERLVGWCEAKDHAGVMGAEQ NRLLSALIRHSKSKDVIKTTVQSGGIKHL VTMATSEHVIMQNEALVALALIAALELG TAEKDLES AKLVQILHRL LADERSAPEIK YNSMV LICALMGSECLHKEVQDLAFLD VVS KLRS HENKSVRQQASLTEQRLTVES
4633	12684	A	5530	93	546	YNCRPTLGVSGCAGLDAQVVCQDCAFE LGKKP/PSGGEQY PSSSAIKQGPKEPYAD FIARLQESLKKVIADLAAQDIVLWLLAFD NANPECQAALRPIRGKAHLVDYTKVCD GIRDKLHKATLLAQAMAGLRMGKGNT FPGACFNCGKHGH
4634	12685	A	5531	1	541	

4635	12686	A	5532	365	661	
4636	12687	A	5533	3	74	RMGPRTGP*VFPETGFPPLSNLE
4637	12688	A	5534	83	262	CTVTTPPPQDTGQSKS*STRVSSSLVPRSPT VAPVTLRPGFEPP*WTPLAKTSSVLTQW C
4638	12689	A	5535	636	698	
4639	12690	A	5536	125	340	
4640	12691	A	5537	81	1007	QPKAEHAALNLRKTFQHASHTPPFSAQQ *NPHRPHQPWL*HALVQHCSMDMQRPS ASGP*/PPGTFSRWSSCKMPVPPPAQVPK SLCGVLSSSC*PGRRSPPGAEPSPRACRP CRQDSG/PAQAGGPCRQDSG/PDPAGGPR DK*ASQPGLPAGERAIAGGPCRQDRGQ PRLASSAGGHCRLRG/PTPAGGPCRL/P QRAAPAGGPCRQDSEQLRLAGPAGRLA GRHGRRSPGAEPSPRACRQESG/PAQAG GPCRQHSG/PDPAGGPRGQLSLPAGPAR RRAGNPGRQPLQTGQRAAEAGEPAFAT AVSGRD
4641	12692	A	5538	1	766	
4642	12693	A	5539	74	1178	
4643	12694	A	554	3	910	GRPPRVPPWLRERRRLEGGHRAAPPAPY DLRLAPPVPHPRGATWQIILSDTLKKLKI TAVDKTEDSLEGCLD\CLLQALAQNNNT ANKCKKSKQVAILQLFASLLTPQSSCKA KVANIAEVAK\NEFMRI\CVDAGLISPL VQLLSKDKVLLQTGRALGNICYDSHE GRSAVDQEGGAQIVIDLRLSLCSITDPA\ NEKLLTVFCGLMLNYSNENDSLQAQLI NMGVIPTLVKLLGMHQCNAALTEMCL VAFGNLAELDAIKLQLVEAGLVECLLEI VQOKVDSKEDDITELKTGSDLMV
4644	12695	A	5540	1	857	MGQVWGLVHFTLELFTDDEEEQEYNK VTEEVTEHVYLPA*PDVHLNQPSHQPPK AGLQLY
4645	12696	A	5541	518	578	
4646	12697	A	5542	750	797	
4647	12698	A	5543	2073	2844	IVRSLRSTAQKIRSGCPCQSW*RRGRPVG SPSQSTEGPGQVRLRT*PLPFHTHEGGP GAGRRSRSSLERPTSQPHRSQSGRCPAAP ATPLPSPGPQAPLGAPFERG/PRSRSA/QG APGTGVRFFSMAQFPFPCSTSQPLKPCSP QELKMRLRPKGA\PDSSAPGRTAGTPPCL RCWAGSVEPLRRVRGPRRCGRGPAAAA TQWARPLCRARRGTLGGIA*PRSVAAARG SAPAPAAPGAARPGPMGPAAVAIAIAG RP
4648	12699	A	5544	3	611	SLPPRASRLPPGPSFSGWSPGDNRKLPNT PPPFRAGPRPPSRAPPA*TPGPPSAGSWP* PPGTGSAPRGPAAPSAPGARRPGRPGCPA PAGRPRVPTAGAGACSAASRPGRTRPRCT RPGAPRSRRRGCGPGGA*PGARRPPRP RPPATRAPRSRSPRGAAPPPTPTARGA AARELRVQRGP/APLHAPQQTTPAAIVP YKM
4649	12700	A	5545	3	42	
4650	12701	A	5546	1	160	SMQQTLLLSYF*KLP*PPQPSATMTQISQ QPSTSRQDPPPTK/RL*LVEGSSNNH
4651	12702	A	5547	298	421	LHPHILPIDKLLHQ*KVVSSEYRQNEV PLYSISSNLVHS
4652	12703	C	5548	598	762	MNSMIQICQDRAEIISSYCNLKIHQRLQN LLISFLQSLKLLKNVNLFSINKNLK*
4653	12704	C	5549	138	296	MNLEVTVARDYLSPLADLAQRRGNIQ EIQTRQDNKVVGIFVPLAEIMVGTL*

4654	12705	A	555	1062	1421	DRVSLCC/PRLECSGMISAHCNLSPSGFK QFSCLSLPGWAYRSVPPCANFCVF/SV ETGFHHVGQAGLELLTSGDLPALASEKC WDYRREHTARGPVTKPSYFQVLFRLHP IFINHLNT
4655	12706	A	5550	2	1575	AMLGTRVERCLRVLGDGVAEFDASAGV EAQTLTVWRQADKHNPICFLNKMMDKT GANFKYAVESIREKLKAKPLLLQLPIGE AKTFKGVVDVVMKEKLLWELQFK*WE KTLRRKAPLGK*MIPEFAGRETT*RKEC L*LEQVADLDDEFADLVLEEFCEFNFDLLP AEKLQTAIHRVTLAQTAVPVLCGSALKN KGIQPLLDVAVTMYLPSPEERNYEFLOWY KDDLCALAFKVLHDKQRGPLVFMRIYS GTIKPQLAIHNINGNCTDRTQIALSVNNH EVHIYKKNRQCVKAHELKEHNGHITDI DWAPKHDHIVTCGADHNAYVWSQKDG VWKPTLMILRINRTATFVKWSALENKFA VGSEARLISVCYFESENDWWVSKHIKKL IRSTVLSLDWHPNNVLLAAGSCDFKHRV FSSYIKEVDEKLASMPWDSKMLFGQLM SESGGGGTGGWVHGLDIPKQSIQRNMSA MECFCNTDKRATTEGSNMALKMLRQNS ITQVSIYEVDEKDCRKYCTTGIDGEP
4656	12707	A	5551	1137	1288	RTLNLKAMASRVLRILTGR*CLDVSIKI PL*ENLGESIMVDSLMLVKVP
4657	12708	A	5552	1	1851	MALKKADKQVLEPLMNLEVTVARDYLS PVLADLAQRRGNIQEIQTRQDNKVIGF VPLAEIMVADLDDEFADLVLEEFSENF LLPAEKLQTAIHKSDTKLRQQLPVLCS ALKNKGIQPLLDVAVTMYLPSPEEL*PM EFLQWYKDDLCALAFKVLHDKQRGPTG FYAPFNSRPL*KPQLAHSIILMETATERIS RLLLPFADQHVEIPSLTAGNIALTVGLKH TATGDTIVSSKSSALVLQVLEPNGREKRS TDKTMKAERLLLAGSGRFQEPVFFCTIG TPITV*GSQIWEHAFEMSFSVRIPVLKVR LDPDSGQTVLCGMGELHIEIHDRIKREY GLETYLGPLQVAYRETLNSVRATDTLD RTLGDKRHLVTVEVEARPIETSSVMPVIE FEYAESINEGLLKVSQEAINGHSACLQ GPLLGSPIQDVGNLYIP*QIHPWAPSTT YDFCLCLKMPCKKALERKADKQVLEPL MNLEVTVARDYLSPLADLAQRRGNIQ EIQTRQDNKVIGFVPLAEIMGYSTVLRT LTSGSATFALELSTYQAHESSRSKYTAQP EKWFDLNVLVFGRGNSGRHPRLLHFSV RNNFYCLYLLGRNKGTVSGTFRGT
4658	12709	A	5553	2	499	RCQKAKFTPVNRHHCRCGFFVCGPC SEKRFLPSQSSKPVRICDFCYDILLSAGD MATCQPARSDSYSQSLKSPLNDMSDDD DDDDM/TVTKDTFGSI*SGEAL*EINFGG NARL*ALSLDCSVTMNLPEKLGTYVPQYI P*KEGAPAFCHSSHSTGIGFCKYIR
4659	12710	A	5554	147	315	LIPQPWGQHLPLPPNISNYD*RPQKFLGL PHPCSFGRALTPHWSTGLRLTPSAQ
4660	12711	B	5555	105	508	XPGTREVEELNALQEELAPFGLVILGFPC NQFGKQEPGENSEILPTLKYYVRPGGGFV PNFQLFEKGDVNGEKEQKFYFLKNSCP PTSELLGTSDFLWEPQESSRHLELWKF LVGQMDTHHALHHRPRQQR*
4661	12712	C	5556	4	165	MCLSGNVYHLCACSCVVPQCTTSLQF STPMIIVHLHLNPKEKPAIGPIVLL*
4662	12713	A	5557	1	1803	

4663	12714	A	5558	2013	2024	KVAGSAGHLRRTVARDQAAAQRDPECA PTPSLARLLQASCLLSLLLAGFVSQSRGQ EKSKMDCHGGISGTIYEGALTIDGEEYI PFKQYAGKYVLFVNVAISY*GLTGHVH LN*TALQEELAPFGLVILGFPCNQFAGK QEPGENFRRSFPNPSRYGPTKVGGFCSL NFPALLRKGDVNGEKEQKFYTFILKNSCP PTSELLGTSDRLFWEPMKVHDIRWNFE KFLVGPDGIPIMRWHHRTTVSNVKMDIL SYMRRQAALGG*RVGCPPFSKILYFPSR VYSLGGGWSILFPPQNKGSFPKFPSRFL GPP
4664	12715	C	5559	2	226	MLLPLPPSPSPSTALPGLGEMGGRPPPPY MLSVAPQTF CFISHSSPSHRVSFSAFP VLPSPSQKFLHRTSF*
4665	12716	A	556	213	513	GGKSLARRVPKGRMDGLLNPRESSKFIA ENSRDVFIDSGGARRVAELLAKAAGPE LRVEGWKALHELNPRAADEAAVNWVF VTDTLNFAFWSEQDEHKW
4666	12717	A	5560	2	1308	ALSLLALPPASPP/AGRGRPAGPGAPLP WHQGLPLTRPGPEG/PLPQGRPLSPPLQP TPAQPLLLPAFPLLPAPGPRRVGFAFWC P*SPGLSPPGLSPDFQTLPCGISFLPEMR KLESWSPAGEPSPPAPPATRVSSRMQLP DPLTLLPPAGPKATFNSYGV/PPPAPE/PS QGRVRGHPEPTGPLLHSSQGQEAAPLP GPCCYGD TAF/PRTEGPPSLPTTRARLSS PPPRFPADVVCVLSVSLVLC TPSLLVVP */PHPCCTGSLSSWL PPLLMMLLPLPPSP PSTALPGLGEMGGRPPPPYMLSVAPQTF CFISHSSPSHRVSFSAYPCSVLPPP*APA WAQDPILPARVSPGRVPFP/PPSHPT PGSEAPHS*PSVFLRKWLKATGPPAQPSA PPKPGNLGPHKPLWKLFCASHSFPRSF TELPE
4667	12718	A	5561	3	259	FLFWVFQIPAPFPEYVTDLCICTPSASPN GYLLA\GRDKAQL\WERLRVVFQRALR DGA*AGEAGGSTPNTVTMEMQCPPGNA S
4668	12719	A	5562	2	329	AGVQWRNLCSLQAPPPGPRSFRLSLPSS QVAGTYRRPPSPANFLYV**RRGFTTV NQDGLDLLTSGSVPASASQSAGISGVSHR AQPSFTFFRLACHVFVRHCHLPT
4669	12720	A	5563	3634	4389	LIQFLLHLSIGLYSYTTICLFILLMEYWL FPVFSYYYYYFFLRRSLALSPGWSAVV QSRLTATSASQVQTILLQPPE*LGQVC ATTPS*FLYF**RRDFTMLARMVLIS*PR DLPTLASQSAGITGVSHRAWFLVFLFF *TESHSVAQAGVQWHDLSLQAPLRF K*FSCLSLPSSWDYRRPPLRPANFFVFLV ETGFCHVGQAGLELLTSSDLPALASQSV GITSVSHHTRPGMSFFITSHKL
4670	12721	A	5564	1	369	LQPQPGLNQSSLLSLLSSWDYRHMPY PANF*YFPETRFCHVAQTGLELLSSDPP YSASQSAGITGVTHRA*PRFTLCTGLIRG QHGEKGLAQGHNVRASSSIQGSVVTWG LRGLFFPHH
4671	12722	A	5565	161	231	

4672	12723	A	5566	1	1401	MQIFDYNSEITDPGIQEEAAGLEGTRKP WNISMLLTTRNISLCQWFSKCGPEPDTST SWGTPQKEHCHLVNKVGVDLSLRMRGY MHGIIQPLNLFQESQLMPQTLFFHNFQN CFFEELHKWRCPDYENNVKRMQLPFS SKLLGSTLTSEEKQERRQQRLRLQELN ARRREEKLQLDQERLDRLLYVQELLEDEG QMDQFHKALIELNMDSPLELQSYIQKLSI AVGAG*AENPPSGSQPR/EDWV/TTASQ RPLTWEQLEPSLEDVESMNDFFDPLFSEE/ D/TLEWRSRSP/RVQPVFNLAAYHQLFVG TERIRAPEIIFQPSLIGEEQAGIAETLQYIL DRYPKDIQEMLVQNVFLTGGNTMYPG MKSVMKELVAG*DPSRLSFKVNLASNP CAGM/DWYGGLVNWALNHLDDNEVWI TRKEYEEKGGEYLKEHCASNIVPRLP MSCLPLLRCRPHPSQSGAAGGGGAG
4673	12724	A	5567	2	131	
4674	12725	C	5568	170	394	MKTNGYQGRVQWLTDLVLNLKSRPVQS SRPSLGNMVKPPSIQKLKAWVACTCCP SYSGAGAGGWHEPRSLRLQ*
4675	12726	A	5569	2	583	DRKGLESPPEPSSDCRRPPGMDLLAISPV LLAPSPQPVQSWPSG*CGRQAPCVLES GHSAGAGVSSWDGPPVPCCKPPHPGLSQ AHPGKTFGPKNLHMVPSGGAQAPGPHK ANQQSWPSCPPVPRSRPPTFSHIAENPME RKSFAQSGAGNWQRKVSNNHPWELQV FESPSRCPVKNGRAAGLVTTGGFREG
4676	12727	A	557	584	827	FLFYLFIFETGSHSVTRLECGDTIMARC SLNFPGSSDPPASASWVAGTAGVLYHT WLSFAFFRRDGVSRVARAGLQLLAW
4677	12728	A	5570	3	312	FFLNROGLALLKLEYSGMIDHCKPQIS GAQVILPVSASWVARPTGVYHHA*LIF KWGREVETESCYVAQAGLELLASSDPPT STSQRAWITGLSHCAWPA
4678	12729	A	5571	1	121	IFHVLKNCQTRSIYLALMSFKNEGEIKMF SNIQKLKEFITDRSK/LQEMLKNAI*AERI YY
4679	12730	A	5572	2	228	FETGSHSVIFWAGVQWYNHSSLQPRLPGL R*FSHLSLPSSWDHRCPTPRPCNFSIFS RDGFSSC*SGWSQTLGLK
4680	12731	A	5573	1	1896	MVSQGCRRSREMRDAHAGWDSPTALHM ARGLGRRVFSAPRHEGGTPDGNHSLSP NOKMEKLTEKGCKQLRQGGLCVRVSDR TVRSVQETTATITLKGSLGTYCRGTRN LLTAEGFMPHASVCIQSKSGKVARNTVQ GFTAHGKAVLEAAVSASGPAGTWGCLR IKWPRSVSWLLKPERAATLVGHGCRKS GCPPGLGGS AKM/PPRHQSAAPAGRGR PCWGPEPTSGSLSNQQLPGALHAPPLP SAPLLGPPLLSRTVDTGPGGSGREVEATT CGRRLKDKDSEHAGAGSRHHQSQTGS LGEERAVRAESPGGPAEFLRRIQGA VQTRAVTAGSSVEKINTKLETCDASEEE VLGGDNVETEERSVCVPEPVKMTLFEKR VFADIIRCLARWAPAATNRRDLVNTLIPG HGPPCSLVAFL/APPSRPYP*PAAR CWWASDFPERGKRLRPAHSSFPVPAP PCVPVQSQSGPLPCTPRHFLPFPAPAF GICRGPRAPGG/SKAVATQRPWWLYAP GTAPGGLPW*/AVPGHNKSIPPQPVSNL TETPLNAPQSSWAALGSKRLGQGCSHG FFAFSFTADVCTNDDTLNANSLTEVLA TEIKHDINLANEGLAWDRGWDYQGD MLSL

4681	12732	A	5574	1	475	FWKSPYSVQPRTEARAQGNKQKEFRET APGSSSKADTKSEHLWALLPSRRWGGS QTQHPPLAREPQFLACGPMKDIRLADWS TPLLSNPS*KLP*ICQSCPLEQEGKQKA*D ARGVPSFPELQPPSGLTAQGGQTHRPHPD LRMTCGRTWHFFLAKTLH
4682	12733	A	5575	2	468	SRGILADPPRPGGQPDFLQP*PTRVAALS GLSNQDIDLGLHLMRRQPQVPAGPEAET AASRTALPCAVNPWTVLRATLPDLDCIQ TEACGMKPSAVSKFLVPRQYVPRLPFKV AVMAVVSCTLRVTLSLTLTHSPPCRSL QPFVSFSIFWFGDK
4683	12734	B	5576	90	1686	XWWEPSFPQQRDSLKVTLQRAAFNP VAPTHSFKDQHPMPSFCHFLSGVPSSRT TLATGRAAPHSSPLKSLVQGYAPWQTS MSCDYQPPRRQEHKETSRRNSEKQLQAP AQRPTPKANTSGRSLQEDLLPEAQPL SVPVCHPCPLLHAARLAVSAAAAIRGLE VAEAAALVCAQKLLAACSSHSITVWSRG KVKETGLPSTVQAVSELLQVLLCKQKAG GCTPDQGPHTSKVLTEASSLPRISMCLL QPGFSDNIPLGTATLTPAATAATPGPLL PCTKHGNPLGHGLTCHYPLAPLPLPPAP HVRFAALSCLERSAGCCLCTPSCRITVG GSVGSCASELNHRACFSLPLMLGFQAPI ATHQWLFVSRNDKNLTDTPRSAGCDGA HRPRQEPAPDGPVLLCLEMPAPGSYPG GAPVSGHRQVHPQQWQVQHLGQSGGIR TGLGANCCKSHDSAYKKGGDVCFPGEM VPVVHQILKGVQHPNCKRGHWGTLVQQ KQPWTGSRGPTADQLHPKNSSLTLVFP R*
4684	12735	A	5577	171	1631	GLPQAGADSDPRTRPFLLLGGLPGLPSPR PYP*PAARCWWASDFPERGKRLRAHSS FPVPA/PPMRPRTVPVRAAPHPSPFTSV PSTGIRHLRAEGW*TGQ*RNTPNKSRRL LSPLVTPGSCRSSPTQSPGSGTTVEMPA RRWCAGATGPGATSP/SSLKVKETGLPST VQAVSELLQVLLCKQKAGGCTPDQGP TSKVLTEAS/SSAPHLQNVLAARSISDN IPLGTATLTPAATAATP/EASPLHQAQWQ PS/TAMASPAITPWHYPQQLRMSGLLP CPA*NAPQAAVSVPPEAE*RLLAALWVH VLRN*TTGPASHCH*CSASKPPSPPTNGY SVSAMTRTPWILPDLAVMVLTPGPKSQ PQM/RPIVLLCLEMPAPGSYPGGAPVS/ AA*AGTPPAVAGAASRAVGGHPRPGC KLRQIP*FCIQEGWGRVFSRGNGPCRASD SQRGPAPKQVQGSGLDGTGATEAALDWE SGPHCRFPAPP
4685	12736	A	5578	718	2209	IPSACFLVLLPSWWLVVAAHGLPGRVA LDQAFQWTRVRGCSACGKCPAAG/PQ AQRGSGRSWAWDAGP*RSVWGPLG*TQ PAAAL*P*VSPFVAGKGLAPTTLVGTAI QSILQGLILSWNPGEPAQ*RNLDGAGG RACCPDEDDQIRGGAVLAEVT*QCSCSP MPDAAHHRHRVRVGVSGAAVCPQWEL GGHGGNARPDAGRGVLRSCRGRNLLT AEGFMPHASVCIQSKSG/TSGTQHCPGV HCTWQSCPLPSAPLLGPPLSRTVDTGEE GHPVDASWTPSTPREPGRWAHCLPQRK P/PLGPAREASVPPAHSGTVAGEAPPVIS HFR/SPAPAFGICRGPRAGATEALPAPRA DAPVKAHV/PAHTGAAS/EPARHVRPFT ATAPFTFPSAVHKGSGFSTSLQTLVIFCC VLMVAIPMGVRWHLTVVLWTLNLAISR VPISVCALDLSFISVPCPLRCWCWWNRV SPKLASPGCSECDLCQMRVMVSSHFSV E

4686	12737	A	5579	2	354	LPSSWDYRRPLIFVFLVETGFNMLARM VSIS*PLDPPDLASRDEIIGVSHRAWLIL S**KGERKSTNVSHKEGLG*WSRATVLQ VYSVGFWEVFPQGCPSQSYFHNNTNM LFAF
4687	12738	A	558	442	626	VEEGGSEAGWALRIKINGVSPKL/VLQL LHFPQIFNGSFVKLNKASVNTLRIVEPYIT WST
4688	12739	A	5580	1	1263	MAEEQGRERDSVPKPSVLFLHPDLGVGG AERLVLDAAALQARGCSVKIWAHYD PGHCFAESRELPVRCAGDWLPRGLGWG GRGAAYCAYVRMVFLALYVFLADEEF DVVVCDQVSACIPVFRARRRKKILFYC HFADLLLTKRDSFLKRLYRAPIDWIEEY TGMADCILVNSQFTA AVFKETFKSLSHID PDVLYPSLNVTSFDSSCS*KAGMT*SPRG KNSWLLSINRYEREKGIWTLGTGKALV QLRGRLTSQDWERVHLIVAGGYDERVL ENVEHYQELKKMVQQSDLGQYVTFRLS FSDKQKISLLHSCCTVLYTPSNEHFIVP LEAMYMQCPVIAGNSGGPLESIDHSVTG FLCEPDVHFSEAIEKFIREPSLKATMGL AGRARVKEKFSPEAFTEQLYRYVTKLLV
4689	12740	A	5581	200	705	LSQTL/TVLYPSLNVTSFDSVVPEKLDDL VPKGGKFLLLSINRYERKKNLTLALEAL VQLRGRLTSQDWERVHLIVAGGYDERV LENVEHYQELKKMVQQSDLGQYVTFRL SFSDKQKISLL/RQLARVCFTPRQ*GTL GIVPLGRPCYMAVPQFICCLIRVGPFGSSI
4690	12741	A	5582	1	259	ERGSRSIARLEC/SG/AISAHCNFRPPGSSD SSPSACRVAGITGRHHPQLFFVFLVEM GFHHVA*DGLKLL/NFMIHLPQPPKVLGL QV
4691	12742	A	5583	94	395	PIIITYFEFLNGYIISQKIKFSHHQLQKIDFL P*TWHLFLIEQR*NILMEGNQFSVTDDVK ILFSGKLYSHSKIQSMML*LVTRE*CYMF NCNICLLSFSSLSVIINDLQNP
4692	12743	A	5584	3	270	FFEAGSHSGCPGWSESGAIIAHCSLDLPG SSNPTSAS*IAGTRSMHHHAHLIFVFLVE TGSPYVVQPSLKL/RVQAILPRPPKVLG LQA
4693	12744	A	5585	13	775	YSVRGLVPAERRTYPYGSIVAPADGMVY ALEGMGPDAPQAQVRVYEPRRDCWLS LPSMPTPCYGASTFLHGKNIYVLGGRRQ KLPVTAFEAFDLEARTWTRHPSLPSRRA FAGCAMAEGSVFSLGGLQQPGAPQLAYS RPHFVNTVEMFDLEHGSWT/IIAPQPAHE G*EGQTLWLGPLGATLWPLGALETSHVL WALLESFSLARRRWEALPAMPTARCS SLQAGPRLFVIGGVAQGPSQAVEALCLR DGV
4694	12745	A	5586	1	936	
4695	12746	A	5587	1	1023	
4696	12747	A	5588	3	345	LNLLMYFRDNVSFCHPGWSTVM*S*LA AASNSWVVT*SSCFS/LPSSWD*S*LPPCP ANFFFF/CQ*RQNLIMSSRLVSNSL/QPQV MLLPQPLKALGLYRVSHHASVKVFNVLI NM
4697	12748	A	5589	1	430	GDGVLLCRPG*STVALSQFTAISASWVK RSSCLNLPSSWDYRCAPPCPAKFCIFSRD GGFTMLARLVSNS*PQMIHPPWPPKVP LPACVWYFSSMACNFLYTPSFRLRLFCQ PKMEKAALCQSPKTVKSCSQMFTFNF F
4698	12749	A	559	3	398	

4699	12750	A	5590	3	389	GVSPCWPGWS*TPDLK*STRLGFPRCWD YRLLEVDPCGTGHSYLYL*KDPPVPLPLPAEG CDYQKGKEYALSSCCDKSYLLPDYRTKFL CCHPERGTWKLGTVGCCYAPIQSFGIAD EQAWLQHSGGAVYLC
4700	12751	A	5591	3	53	
4701	12752	A	5592	363	777	DMRPQLCSVDNHREQRAEFINIYQHQQFF FLRQSLTSVAQAGVQWCSLSSLQPLPTG FKPFSCSLSSWDYRHMPPSLANFFCIF SRDRGFTMLARLVLS*PQ/CDPPALASQ NAGITGMSHHA WPTPTFSYLLNTQD
4702	12753	A	5593	3	85	FFFFFLMLHNNVYLVHLFTISYKHFIIIV LYKQQKFITYVY/TFICLLVFQFQIILLES FPFLKIILL*SL
4703	12754	A	5594	1	281	FFFAPETESYSVAWLECSGTILVHCTLC PGSSDSPASASQVAGTTGACHHTWLILVI LVEIGFHHVGQAGLG/IS*LQVIRPPWAP KVLGIIG
4704	12755	A	5595	2	369	FFLRWCFALVAQAGVQWQDLGSLQPLP PGFKRFSCSLPSS*DYRCPPTRLANF/SV FLVEMGFHHVSQAGLELLTSGDLTTLAS QSAGTTGVSSRAWPDLYLFSYIEKTSPF KFSIPFHLEI
4705	12756	A	5596	432	1490	KKGCGKPGELCGMPSSWKNA YCPTAQ QTAQEYLSSPCGSAAPCLP/DRASSSSRS VEASSLDSAPGTSAAGSPSPRPFGEYH HPGPGANNEPTPAESIVVPSWP*GCHSS VAVEKLSLAPGTPT/SDLPLLDSSMNRKA PIPVFGLSASSLLPLKDARSETSSR*TH Q*FFGKDVH*QNSLAQSLQHSSGPQLL WGKTGNSQSSFPQAG*HSRHKEGCWRE PSHKPLEPHLSQHHGTASSARIPEVPPP HSLGHSPACAWRSSSPRPRPLAALPGC RRRRGAGSSHKAPDRSTARPGRCGRRR GRRRGARRGCGGSGRGP SHSGPQRSESAP PAGAHTRLQPLRSHSLH
4706	12757	A	5597	1	2163	MARMSFVIAACQLVLGLLMTSLTESSIQ NSECPLQCVCEIRPWFTPQSTYREATTVD CNDLRLTRIPSNLSSDTQVLLQSNNAIK TVDELQQLFNLTEDFSQNNFTNIKEVGL ANLTQLTTLHLEENQITEMTDYCLQDLS NLQELYNHNQISTISAHAFAGLKNLLRL HLNSNKLKVIDSRWFDSTPNLEILMIGEN PVIGILDMNFKPLANLRSVLAGMYLTDI PGNALVGLDSLESLSFYDNKLKVPQLA LQKVPNLKFLDLNKNPIHKIQEGDFKNM LRLKELGINNMGELVSVDYALDNLPEL TKLEATNNPKLSYIHLRAFRSVPALSLM LNNNALNAIYQKTVESLPNLRISIHSP LRCD CVIHWINSNKTNIRFMEPLSMFCA MPPEYKGHQVKEVLIQDSSEQCLPMISH DSFPNRLNVDIGTTVFLDCRAMAEPEPEI YWVTPIGNKITVETLSDKYKLSSEGTLEI SNIQIEDSGRYTCVAQNVQGADTRVATI KVNGTLLDGTQVLKIYVKQTESHSILVS WKVNSNVMTSNLKWSSATMKIDNPHIT YTARVPVDVHEYNLTHLQPDYEVCLT VSNHQQTQKSCVNVTTKNAFAVDISD QETSTALAAVMGSMFAVISPASIAVSFP KRFRRKNYHHFIKKVLWQKTS'SIPLNE LYPPLI*PLGKVDSEKDKDGSADTKPTQ VDTSRSYMW

4707	12758	A	5598	50	824	SLLKPYVVRIFTKEKSYKCECGKFHKS CSRH*NHKIIHTGEKHYKCEECGKVFNH C*QLIAQKKIHAEKNSDFKECGKAFNNY YELTHQRFAR*KQCKCNDTHYIYLWK DVTK*KP*STQGVMIHICTWKDFKNI SLRVHKSFYTEEKHYKYKDCCNTFTYVT DFVVHRRYTER*PSNSCSNFIPF*IYIGK KPYNCNEYEKNCLKSTP*KTLV*GRARW LTLIIPAPWEAKAGGSRGQEIETTMKPCL Y
4708	12759	A	5599	1	2043	
4709	12760	A	56	939	1603	GHSANWWLGPEENPALPTPELVSPPRGC RQSSRPSLRRHKEEKAK*KSQPTILRPP APPTGSLQAPKGGARPPSRPPPPRPA PNPRLPPPPSPE/GRSSCPAPPTTRTPR VQSQTHRPPSSAYEKKDAARAPTATGR APRRPGLRPKSWMPEQEKEPPTDRSIDR TPVPSPYQTREGGRAPRASSI*GPDSPAT RQDGSSGPHRSYRPGCVAR
4710	12761	A	560	1	960	IMATSATSPHAPGFFAEGRCGYVVEKKK RFCRMVVAAGKRFCGEHAGAMEEEDA RKRLCPLDPKHTVYEDQLAKHLKKCNS REKPKPDFYIQDINAGLRGETEIQEQL/CL NSTLTDHIMSHPALHDALSDPINGDSAT KHLKQQASILGNENLKLGP RRCFVEF GAGKGKLSHWVDIALKDAEKVHFILVE KVTRFKVDGKHRKNSVFERLQIDIQH LCLNKIPVLREEKLPVVGIGKHLGCMAT DLALRCLVETAAASFEERNEEPLAKRIK NDKTEKEIYTLAKEGNEKNVPEKWNPV AGIVIALCHHRCDW
4711	12762	A	5600	18	403	FCIFSGDGVSPCWPGWSRIPDLR*SACLS LPSSWDYRRPPPSANFF*FLVKTFHH VGQAGLELLTSGDPPASASLSAGITGVSH CTRP MYAFLKQLNFHIDKSDYRLYRKL YLKATTMVFRYAFL
4712	12763	A	5601	2	497	ETESHVQTQAGVQWCDLGSLOPPPPRLK RFSCLSLPSGWDYRHVPHLANVCIF**I WCFTMFARLVFNSRRTPSDLITSAS*SAG ITGVSHRAIRLCIFYFYFFVAEMVRMSCF VTQVGLEFVALSDLPPWPPKVLGLQA* ANSAWPVFYCNSFFHSHLNAFPN
4713	12764	A	5602	3	303	LSCFPQATFFFFIF*DRVLLCPGRSTVVQ SQLTAALTSRAQGSSCLSLPTKWDYRHV PPYSAFFLFLVDKSLALLPRLVLNSWAQ AILPPQPPKVLRLLA
4714	12765	A	5603	122	525	QFFFEIGSLSAQVGAQWR*STSPLQPW SPGFK*FSHLSLPESWEHRPMPQGLDNFC IFVETGFRHVAQASIKLLGSSDLPALASQ SAGMTSMSSHAWPIVKNFVCIYYVPDIV LSMLS VKSINIHNHVRGLQ
4715	12766	A	5604	1	198	LTGRL/SKCEVVSWRFDVQLKDLKRWQ NHLLLSQQLACIVLTSAGIMDHKEMR*K HTGGKSLGFFF
4716	12767	A	5605	156	1047	VPAGEARVQWHDLSLOPPPPGSSDSP ASSSRVAGITGIKTNTICKKCAQNVQLYG TPKPCQYCNIIAFIGNKCQRCTNSEKKY GPPYSCEQCKQQCAFDKDDRKVDGK LLCWLCTLSYKRVLQKTKEQRKHLSSSS RAGHQEKEQYSRLSGGGHYNSQKTLSTS SIQNEIPKKKSKFESITNGDSFSPDLALD SPGTDHVFVIAQLKEEVATLKKMLHQKD QMILEKEKKITELKADFQYQESQMRK MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKKSEKSGAITSP

4717	12768	A	5606	156	960	VPAGEARVQWHDLGSLQPPPP\GSSDSP ASSSRVAGITGIKTNTICKKCAQNVQLYG TPKPCQYCNIAAFIGNKCQRCTNSEKKY GPPYSCEQCKQQCAFDKDDRRKKVDGK LLCWLCTLSYKRVLQKTKEQRKHLSSSS RAGHQEKEQYSRLSGGGHYNSFSPDLAL DSPGTDHFVIAQLKEEVATLKKMLHQK DQMLEKEKKITELKADFQYQESQMRAC MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKKSEKSGAITSP
4718	12769	A	5607	1	354	ETEFPSCCQAGVQ*HDLGSRQPPLP\GSS DSPASASRVAGITGMHH*SRDVLIRILEL EEGLELCPHFVSRNLPKTGQILTLMLSLA PVKLAPQPKLSWMELTRHSRLWAALSG GGQV
4719	12770	A	5608	3	403	YIFSRDRVLPFCFGWSQTPGLKQSARLCL PKCWDYRREPPQLAED/SYFQFRASLKM TL*GIVSMV/PLLQKLLWMCKAQGNQAE EGTGVALPEREASSWSCLLQLPFPVDEP CSSFKRRESEKEPSPNGFPNLNI
4720	12771	A	5609	340	1015	VGSVEEFQGGERSVILISTVRSSQSFFVQL DLDFNLGFLKNPKRFNVAVTRAKALLII VGNPLLLG\HDPDWKV*APPPHSPS*WP QPLPRAGGSFLSACLSLS*SSDVSIPTASL LYL*VK*HPEVEQVQLRWDRVA*PPVS AGHSSVPHRFLAEFCKENGGYTGCPFFAK LDLQQGQNLQGLWSKLSPTSGPHSH GLTSPREREGERGPVFCCKWEPEWRNEL
4721	12772	A	561	111	349	SLSDSGCKAYVGDEYLPGLDLHAQP SLLKEHEEEKMFTLKGRLPAADVKNIIIF FVRPRLELMDIIAENVLSEDRRG
4722	12773	B	5610	769	809	GFPIIFHGVMGKDEREGNSPSFFNPPEEAA TVTSYLKLLAPSSKKGKARLIPRSVGI SPYRKQGALEDLEIKDFEGGFSKKNSK AQERSVILISTVAKRPRALLQLDLDF*
4723	12774	A	5611	99	341	SELGTVAHTCNLILPSSGDYRRPSPHLAN F*FLVEMGFHHVQSGVELLSSGDSLAL ASQSPGITGVSHRAQVPPPPFFF
4724	12775	A	5612	1	1795	MRQSHQLPLVGLLLFSFIPSQLCEICEVSE ENYIRLKPLLNTMIQSNYNRGTSAVNVV LSLKLVGIIQITLMQKMIQIKYNVKSRL SDVSSGELALIIILALGVCRAEENLIYDY HLIDKLENKFQAEIENMEAHNGTPLTNY YQLSLDVLALCLFNGNYSTAEVNVHFTP ENKNYYFGSQFSVDTGAMAVLALTCVK KSLINGQIKADEGSLKNISIYTKSLVEKIL SEKKENGLIGNTFSTGEAMQPSGVLPLN GCSTTLAVACSTGHRKCSRALENRCR SPAACKVTKNKRLSNCQTGQRKLRRCDN RMQCGVLDRIEQKEDISGTTSEIQIKWG VELHSVSRWRLGKVAMEMVQCQKAGY PERGDGVGAVAEGPNIKVAGGLRELETR KTALPENESSQEHAFTITLQHLVQGLAH SGYSVLSKCLLNENRAMQKHGTVWTQQ IQSSAAEKSEKTMSWDRLGRGTAHSWQ ACPVSLLKQAVEGAHQEEQCKRRDEM PGESDLVTMASGRDALLCGRCCQAKT EELTITVPRLGEQREAPLPCSTPPGSTPPA AKVPRPSAAPDGPPS*SPGARRQVARPRR GQAPENK
4725	12776	A	5613	12	367	LGGASEATGASAAQPPPPPPAPRAPNPAP GPAPAQR*SALDPPLGRAPRSFLKGPRP ATARPFG/WRLQSPLP*PESPPDTRGVRG EAPAPADPAAGPRKSKSDCLAAVIRCLC RAPR
4726	12777	C	5614	231	302	MNSFLVFFPLYVQMYMLRLNFCA*

4727	12778	A	5615	194	737	EGGVCLSWCGWFGPVCCDYTPPLPEPR DGCLC/PLPKMPPAPPMLPIQQSFQPFQE RPGPSPVPETASPPAGN*ISHLSEGPNTQ WSPGFKPWGVCHL*/CGHVGVPLKPAP CPLE/CCPSGCVDSGAFPPQKHSPSGSGPE TAAGPSHLNDNWQRLGFYELLSGIFCRA PNKCICYVSIFVLK
4728	12779	A	5616	2	360	PRVRDPRVRPRVRRRIYKPLRTRDELDO FLDKMDDPDY/WPAVDFFSGDVMHPVT NRPADKRSFIPSLVEKEKVSARMGHAIKM GWIQPRRPRDTPSFYDLWAQEDPNAVL GRHKMHVPA
4729	12780	A	5617	1	2072	DSGSDSSEDDDEGEDEGDALDDEGHS GIKKTTEEQVQASTPCPRTEMASARIGDE YAEDSSDEEDIRNTVGNVPLEWYDDFPH VGYDLDRRIYKPLRTRDELDOFLDKM DDPDYWRTVQDPMTRDLRLTDEQVAL VRLQSGQFGDVGFNPYEPVDFFSGDV MIHPVTNRPADKRSFIPSLVEKEKVSARM VHAIKMGWIQPRRPRDTPSFYDLWAQE DPNAVLGRHKMHVPAPKLALPGHAESY NPPPEYLLSEEERLAWEQQEP/SERKLSF LPRKFPSLRAVPAYGRFIQERFERCLDLY LCPRQRKMRVNVDPELIPKLPRPRDLQ PFPTCQALVYRGHSDLVRCLSVSPGGQW LVSGSDDGSLRLWEVATARCVRTVPVG GVVKSVAWNPSPAVCLVAAVEDSVLL LNPALGDRLVAGSTDQLLSAFVPPEEPPL QPARWLEASEEERQVGLRLRICHGKPV QVTWHGRGDYWPLVLAPRGHTGVLIH QLSRRRSQSPFPCTHV*VHRVAFSPARPF LVLVGPQRSVRL\YHL\LRQELTK\KLMP\ NCKWVCQPGGCNPAGDNVICGSY\DSK LVWFDLDLSTKPYRMLRNH/HRRALLA VAFHPRYPLFASGSDD\GRVIVCHGMVY NDLLQNPLLVPVKVLKGHVLRDLGVL DVIFHPTQP\WVVFSSGADGT\VRFLT
4730	12781	A	5618	1	214	QDSALLQLL*IIYPVYNLSPAGQGRDLF SCLLRHRLKLPTSEGVRT\QSALQAFKGP NAQTQWIYGHDPN
4731	12782	B	5619	58	280	IHCAISKIDIEKDIQAVMEETAILSTENKS EFLLDYFEEDPNSAMDKERRKSLKPK LLRLQRDIEKASKDKEX*
4732	12783	A	562	223	747	CIGKVYVWLGGVGWLQKSWGTPLFSPH PPGRPRSFAGHSPPGILGVGLGGENRI LVIIIFNLICTYLQGLGEVEGGESPLS APPTPFLRRFVCV\GPHPLPIPHCCLDVVL FFYRSPFPSPFPSPPHPLPLPFVSCSFLG FCTTQLVYTVYTQPAKRKPNGKHFKKK KK
4733	12784	A	5620	2	785	HFNMARDPLTDCPYNKVYKNLKEFSQNG ENFCKQVTSVLQQRANLEISYAKGLQKL ASKLSKALQNTKSCVSSAWAWASEGM KSTADLHQKLGAIELEAIKPTYQVLNV QEKRRKSLDNEVEKTANLVISNWNQIK AKKKLMVSTQET*STFPSL*ESS/ARQSM TEKEKRKLLNKLTKSTEKLEKEDENYYQ KNMAGYSTRLKWENTLENCYQSIL/ESW RRKEFNFYAITLNQYSQHISLFGQTLTTC HTADSLCHQQD
4734	12785	B	5621	13	543	MFLAPIAVSVRRFFXVKASVYAYTMFFS TFYHACDQPGEAIVLCILSYDTLQYCDFL GSGAAIWVLTILCMARLKTVLKYAYRCG HRRQCYPTLWQRWAFYLLPGVFMA SVG IAIYTSMMTSDNYYYTHSIWHILLAGSA ALLLPPDQPAEPWACSQKFPCHYQICK NDREELYAVT*

4735	12786	A	5622	1	1798	MLCFYAGSCRHFRSGAPPVINPLGTSFPD DTAVQPSFQVGVPLSTTPRSNASVNVSH PAPGDWVFAAHLPPSSQKIELKGLAPTC AYVFQPELLVTRVVEISIMEPDVPLPQTL LSHPSYLKVFVPDYTRELLLELRDCVSN GSLGCPVRLTVGPVTLPSNFQKVLCTG APWPCRLLLPSPWDRWLQVTAESLVGP LGTVAFSAVAALTACRPRSVTVQPLLQS SQNQSFNASSGLLSPSPDHQDLGRSGRV DRSPFCLTNYPVTREDMDVVSVHFQPLD RVSVRVCSDTPSVMRLRLKPGMDSGGS LTISLRANKTEMNRNETVVVACVNACLAL PLALILSLNCTTAFFQGYPLSLA\GSRRRA NLIPYPETDNWYLSLQLMCPENAEDCE QAVGPRWEDHLCTWGALF*TDGPGYQG C\SLRRHSYLYASCCKAGWRGWSCDT NSTAQTVAQQAATLLLTLSNLMF/LGP PSPSSVRRFFLVEASVYA\TMFFSTGCG VGGQDRAHGASPFYHACDQPGEA VLC ILSYDTLQYCDFLGSGAAIWVTLICMAR LKTVLKYVFLGLTLVIAMSLQLEPQGH VEHLGGPASLPS
4736	12787	A	5623	121	291	AFCFPKYELTINFKNFQLGVVTHACNPSI LGGRGGRIT*AQEANLANMAK\PCLLNK
4737	12788	A	5624	571	690	CQQGFSLQAYGPAQHAISMRFKAKY PDYEVTWANDGY
4738	12789	A	5625	130	943	
4739	12790	A	5626	45	473	GIPGRRNMAVADLALIPDVDIDSHGVFK YVLIPSPLGLPAPGIRPAESKEIVRGYKW A\GHHADIYDKSVGATCRKQGLRTVSV WTAGPHLPTKSPQGERFT*YG*FHGPMV LPKANANFNLRSKAKYPRLTEVTGLNRPAT
4740	12791	A	5627	3	348	TLRLTHLHTDTHQ/HSYSYTHTEIHTPHT PHTETQTH*YTYALQ/PLRSHLFLRQSRP QNGNAPLCEFSHPSPDVLQTLHLTSVV VKIPSTSLLMCRSSGGAQCRESLDQHEG VGP
4741	12792	A	5628	3	331	FFEMESPSV/SQAGV*GPNLGSLOPPPPQ FKQFFCLSLPSSWDYRRTPPCPANFWIF*\n KDGVSPPSP*WSQSLDLGLFKFIYFFKET LILCTQSSTTTTTTKRTTRSSH
4742	12793	A	5629	3	336	SHSVAQAGVQWHNLGSLQPPPPAFK*FS CLSLPSN*YYRRP\PPHPADF*FLVETGFS HVGRAGLKLLTSSEPPACASQSAGITSVS PPCRAHTFELIPLCPFLFWPLFCP
4743	12794	C	563	238	267	MQINSQMER*
4744	12795	A	5630	1	267	EMESCSVTRLECSGAILAHCNLCLLGSS DSPASAS*VAGITGMCHYTRPTFLFLVE MGFCHVGQAGLELLTQVIRPPRPPKVLG LQA
4745	12796	A	5631	3	521	FSFFFFPAFKMSNRGRGGSLL\GRKFPDF PLGPSGRLL*SNWCLTNTRSPKTL\YIHL *RGNOGDRLDQTSPLLGVGDMVMAHS/ VKKGKPELRKK\VHPSSGSFRQPKVHY* EKMGVFLFFEG*LQGVIVEFFKGRDGK VSCHLPGTQLGKGSFADFVAPGICIMP WQPLH
4746	12797	A	5632	3	216	DRSHSVTQAGV/Q/WCDLSSLPPPPGGLK *FLCLSLSSWDY\GAPPHQTNFYIFIRDG VSPYCPGWP*TPSLG
4747	12798	A	5633	1	412	IIRSKNI*YLEINPTKHTKTFSTLT\TKVEMK EDLN*WQENPCSWIGSVSIVKMSVLSKL I\TEIQCNRNKY\YQIGLLLLPLLLFFLLDR LVLKFTWKGTGPRMAKAILRKS/SEDLT LTYINTYYKATV\IKLVGAKPD

4748	12799	A	5634	276	2588	NKHFSFQTPKKSHQKSLSFSKTTPRRISH TPQTPLYTPERLQKSPAKMTPTKQAAFK ESLKDSSSPGHDSPLDSKITPQKRHTQAG EGTSLETKTPRTPKRQGTQPPGFLPNCT WPHSVNSSPESPSCPAPPTSSTAQPRREC LTPIRDPLRTPPRAAAFMGTPQNQTHQQ PHVLRARAEEPAQKLKDKAICTPKRPG NSTVTSSPPVTPKKLFTSPLCDVSKKSPF RKSKIECPSPGELDQKEPQMSPSVAASLS CPVPSTPPELSQRATLDTVPPPPPSKVGK RCRKTSDP/MKEAS/SECQLDASATPGVG TADSPAAPTDSRDDQKGLSLSPQSPERR GYPGPLRSDWHASSPLITSDTEHVTL SEAEHHGIGDLKSNVLSVEEGEGLRTAD AEKSSLSHPGIPSPSPSCGPGSPLMPSRDV HCTTDGRQCQASAQLDNLPAASAWHSTD SASPQTYEVELEMQASGLPKLRIKKIDPS SSLEAEPLSKEESSLGEESFLPALSMPRAS RSLSKPEPTYVSPPCRLSHSTPGKVTGGK PTSARVPPPT/SPSSTPSPFQTDGVPWTP SPKHSKGTTPDIK/TGPGGRGRWAVAPA PLPGGARSVQPSWEPVTA*VRGQGRP* TQHPQDAHLGGF*ARGSVAPRPPVASQE /PACLRPRKPLPGDSL*VPGRESCWPRK KLTVEPKGSVT*EKIQKLVVRKGLQVG VHGSYPRETCKRCLFPAPHLPAVPCGAP SPASALQALTQSPLLFGKTPSSQSKDPR
4749	12800	A	5635	29	268	ILINHFFLESCSVAQAAVQWHNLSLQPP PPGFK*FSYLSFLSS*DYKHAPRPRANFCI FSRDAVSPMLASWSQTPDLK
4750	12801	A	5636	2	118	
4751	12802	A	5637	1	262	ETDLALSARLECSGNTLAHRKLRLPGSR HSPASASQVGGTTGARTTPG*FFVLVET GFHRVSQDGLDLL/NLVHPPWPPKVLGL QA
4752	12803	A	5638	3	309	IDTTFEEEEEEEFETESLVTLECSGAIL AHYKLRLPGSRHSPASASRVAGTTGARH HARLIF/VYFLVEMGFHVSQDGLDLLTS *SGPPRPPKSLGLQA
4753	12804	B	5639	49	754	MAGAAPRLPWSRPHGSCGWWMQPLQ GPGRRAVAAAWEVATPVFMPVGTQAT MKASRPNSWTLWVAASAWAYLPSGSK AGGTAAFPDGVAGVSVRGDGGGLRFRS PYDGNETLLSPENPCSRMRWAPGVVT GALLQVNPLAGPVHAAHQRPDKQNLFA IIQVGWTVISGPPALKRFGSAWHSRAFLT HCCTVTTTRPCTTSRPPHRLPAELMSAV RTSIVEKRFPDSCGTSWAPX*
4754	12805	A	564	549	848	LFFPHSQSTKVSTYEQIMCVCVFLFFCF FVFPETGSHSVTRLGCSGVIMAHCSFNL PGPSDPSTASQVAGTTGVCHHAQLIFKF FVEPGQHTIPL
4755	12806	A	5640	3	906	TVKMAGAATQASLESAPRIMRLVAECSR SRARAGELWLPHTVATPVFMPVGTQA TMKGITFIEFLDALGCRICLNTYHLGLR PGPELIQKANGHLGFMNWPNNLLTDSG GFQMVSLVSLSEVTEEGVFRSPYDNE TLLSPEKSVQIQNALGSDIIMQLDDVVSS TVTGRVVEEAMYSIRWLDRCIAAHQRP DKQNLFAIIQGGDLADLRATCLEEMTKR DVPGFAGGLSGGESKQFWRMVALSTS RLPKDKPRYLMGVGYVVDREARALPVG SGFLGTPYPAWGGGIWGKRTQV

4756	12807	A	5641	379	677	EGLRP/ELQNDHIIQGGLDADLRATWP* RDDQARNVPGFAIRGALSGE*EQSREF/C AGWLAAEHTLG*PKDKPRYLMGVGYAT DLVVCVALGCDMFDCVFPTRTARFGSA LVPTGELQLRKKVFEKDFGPIRPGCTFP HVPKAPARAFLHATAAQ*QHGPRTTLT VHNIA YQLQLMSAVRTSIVEKRFPDFVR DFMGPMYGDPTLCPTWATDALASVGIT LG
4757	12808	A	5642	2	335	AGVQWPDLSLQPLPPGFKRFFHLGLPSS WDY/RVHEAPRPANFLAKFLVEMAFCHV GQAGLELLGSSDTPVLAFAQSGITGESHLA WPVFN*NGSFNVFSLRVINEHLALHL
4758	12809	A	5643	56	571	YYQNPPKKLAASCGLSPVLQVLKSLKG EVLPLGETQHYFPLNRELRLLTQHFLLL MPLSQ/QTSKAGTHARLIDPDYQGRTKF KIRNGKKILNGRRKEIAWNVGFST/PCLL WKVIGILEQSNMAIYWYIHPRMKV*ASP PGKEQRPFEVTPEGQRNMEWLEEERNG RCLP
4759	12810	A	5644	2	1085	
4760	12811	A	5645	387	533	RWSDYVERYMNSDTSPELREHLA\QKP VFLPQGE*AMSIQCVHTVHD
4761	12812	A	5646	1	169	VFLVETGFRLLARLALNS*PCDPPASAS QSVGITGESHCARPGTILMKHRGQLCT
4762	12813	A	5647	2	369	FLRWSFTLVAQAGIQWCGVSSLQPLPPG FKQFFCLSLPSSWDYRCPPTNF*LLV EMGFHHVGQAGLELLTSGDLPASASQSA GITGISHRARPGLFF*AVNGGGNQVFLF LRVLNGL
4763	12814	A	5648	1	340	FRPQSC*CPPADSRLFPATPEAVLSLLVK ASPPPELPRSPPEKPTGLSGGALG*QRFSR AARNRGDPLTRKNSKITSLLSFLQELTKA LEQKPDDAHILSSKSLLSHSSWELL
4764	12815	A	5649	2	660	RPPAPAPGPQGPWPQGPYP*AESPPARS RTPHASQLPRCGPRPTADPSSAPSRRLRP TSRSRHCFFAAGS/PGTPPQPPSADVRRV PPFSPLSSRW*PPQSC*RPPADSRSR PPLRPSFRFL*KPARPQSSSVASREAGPL VERQVDSVLAGPRETASSFATRPCATLP GKVTANCKPPQKTSGQLLVRLSRSVA AYSSPFFGAPEIGEGEMPI
4765	12816	A	565	178	375	ANFIAGVWSQSRFHALALHIIQQGSKKV P*ANFIAGVWSQSRFHALALHIIQQGSKK VPIVSKLENDTAARHELFIAEWRKQCSE KKAQAKGWRQW
4766	12817	C	5650	19	153	MKMTSNFLLFSSGIFSSTFIQHLDVPLEL QTQNTVMGCLMRIHP*
4767	12818	A	5651	2	306	ETKSCSVA*AGVQRRNHGSM*RQPPGSS NPPISASRVFG/ITGICHRTHLIFLFFVETG SHYVAQGSS*TPEAQVIRLHQPPKL VFF YIFQLFLCFLVCY
4768	12819	A	5652	2	760	FFFFFFSENDGHLDTGARFAPDRRHTGV GRTKDTQVGYRCHTAPARAGGWGED GCLAS*PGVRVKSRWSVPGAPGRGGQC HNPSGFPT*PGGRHRKQPRPGARVLQAG GQQQAFLPLAGWHLSGPGYWLSTPWAC KGLGVVLSVTPLPPRSPWVG*GLGSR/Q AVEGRAAQGRYLSFCPGTQW*WPPSAPI PTGT*SEVAHTKGVPGPGEPPAARGLRT LTLAVGPGLPGRSLVQHPKRYRALQALT SCFCSA
4769	12820	A	5653	1	834	

4770	12821	A	5654	674	1268	PRDLPASASQSGITGVSHRLRFYFDHQ DVAPECGAYFFHELAKKRGVE**NTL LAKMVSIS*PRDLPASASQSGITGVSHR LRFYFDHQDVAPECGAYFFHELAKKRG KGVRLKMQNQRRGPAVFQDILKPGQ DEWGKLEAMEAAMAPGKNLNQSLD LHALGSAPTDPHLCDFLESHFRDEEVTF MPRKSADLHAAGEAASLGGVSLNVMK GASLHALCLRLNSFGPGVATLCGERVV HKNNRASALRKCFWP
4771	12822	A	5655	2	612	RYDFFFFFFFVTESTRSG*LQSQAGVQ LRDLGSLQAPPRFTPFSCVPSPPSWDYR RPPRPANFFLYFYS/MRRGFTVLARMVS IS*PRHLPALASQRAGVTGLSHCTRLFFF* WMESPSVTQAGIQWHDLGSLQPMPPQF R*FSWLSLPSSWDYRRPPRPADFCTFSR DGVSPC*PGWSRSPDLVIHPPWPKVLG LQA
4772	12823	A	5656	140	261	RAEPPLANHILFF*DRVSLCRPGWTAM A*TWLTVASTSRAQAVLPPSASPNS*DY RHVSPHPLIFVFSFLIMLSRMVSNWSAQ GILLPWSPKVLELQA
4773	12824	A	5657	79	358	AGVKWGDLSL/QPPPPRFKRFSCSLPS SWGVRHAPP/*PG*FSVFLVKTGFLHVGO AGLELLTSGDLPVSASQSGITGMSHCA WPTKALISK
4774	12825	A	5658	2	350	SQVDR*QSEPESIRICREDHMERLQAFDA NSRKQEAWEKEAIKELEEWYARQDEQ LQTKANNRVADEAFYKQPFADVIGYV EEAFVNDIDESSPGTEWERVARLCDFNP KSLD
4775	12826	A	5659	3	752	HRCGVGGSVGFCLTVGVRAVQLPAMAE LDPFGAPAGAPGGPALNGVAGAGEED PAAAFLAQSEIAGIENDEAFAILDGGGA PGPQPHGEPGGPDAVDGVMNGEYYQ SNGPTDSYAAISQVDRLQSEPESIRKWRE EQMERLEALDANSRKQEAWEKEKANE LEEWYARQDEQLQNTKANNRVADEAF YKQPFADVIGYVYVAKLIPFSTSDSFYFC LELMILLCHKLLCFLNYFKLALWGLPKN
4776	12827	A	566	656	874	
4777	12828	A	5660	1	348	NSLGESANALGNQ/QPITONVCPRLMQ APGMAPSFSFIMNTLEVRKAFLKRFPWM SAPVQVGLVGFCLVFATPLCCALFPQKS SMSVTSLEAELQA*DPKRAHPRLRRVY FNKGL
4778	12829	A	5661	3	430	LRQSL/DSVAQAGVHWRDLGSR*APPPG FTPSSCLSLPSSWDYWHPPRRPAVFLYF* ERRGFTVLARMVSIS*RRDPPASAPQSAG IIGM/SHRAPQILFFHIFSTVSAGINES*V CFYCHILEVPSKEGILES*CISEAAH
4779	12830	A	5662	3	756	GAISAHNRNRLFGSSDPASASQEHWGT ETLAH*RSQLTATSASWVQVILLPQPPKN TGAQKHWPTEGEAKEHCVSDDSESTLK AGGQHRIKQGGNSSSGAREPAPNILNSR RSWWTLVAKAAAVTVIRVILMAAILRG TLAKEVNWWVLDLTDKNEAADPRAR HKDSPSPHQTPESWLHSDPTGPGQVE LPASPTMCAGTSQPLVSRWDWSPWSRK RHIFAPSSHNKYAGESFPGIYDAIFDIEN KANSRLAWKEVKKHISIAAFTIQAAAGT LKEVL

4780	12831	A	563	2	773	LANFCIFSRDGVSP*WSGWSRTPDLR*ST RVGLPKC*DYRREPPHPPGLLPVSSHFA FGLFORRRRLFVCFFAFLRQSLALVTQA GVQ\WHDLSLQPPPPGFK*FSCLSLSG WNYRCVPPRQANFCIF/M*RRDFTMLAR LVSNS*PQ/CDPPTSASQSAGITGVSH/H/A RLAFVS/CYTHTHTHHTLA*IPFPSVFP NSLSPPLQQGFCPHHCTELTSYLIKITNPV HVIRPNGHSALCILVQVSAPLHWSLPL E
4781	12832	A	5664	2	415	LDPGSLAGFTSYIQFMYDEFVEEYEPTK ADSYRKK/VAQDGEEVQIYINTAGQEDY TAIKDNYFHCVFSITEMESFAATVDFKEQ /ILRVKKDENIPFLLVGNKSDLEDKRQVSI EEAKNRAD*WNVIVVETSPKT*AN
4782	12833	B	5665	151	1312	MMGGRLLTGGIPGEAAVWGCSRSTAP SVFPPPPAAAAAAAVSSGNLRLHPGQV PRVVLSSREGGLAPRRGCPSKSGGSESTR VPRAGPRGESTGDRDPAPPPGPPSSSHF SPLRIERKADKPPENSGESSHDVASREQP LVLLAEHFRWAILLACHSMPTVGRKQV NNEIKTEIKKFETSENKDTYQNLWDT AKISFFPDFSYNFFMPISVLDAGGGSETA KHHHQDVHEIQPHIEPQISLGSFEHPIFGS CTIKEGTYRKRVLVDGEEVQIGILETAGQ EDYAAIRDNYFRSREGFLCVFSITEMESF AATADFREQILRVKEDENVFLLVGNKS DLEDKRPVSVKEAKNRADQWNVNYVE TSAKTQLMLTRHKPGTSSQX*
4783	12834	A	5666	3	955	LLLLLLLLLLLLLQPPRLPRHPSDSSFDRSR RGAFQATRTEYPPGGATQPRLEPSGRR TGSRCFFLILWRKLRHKMAANKPKGQ NSLALHKVIMGGSGGVGKSALTQFMY DEFVEDYEPTKADSYRKVVLDGEEVQI DILDTAGQEDYAAIRDNYFRSGEGFLCV FSITEMESFAATADFREQILRVKEDENV FLLVGNKSDLEDKRQVSVKEAKNRAEQ WNVNYVETSAKTRANVD/KEWPFLKTR WWNTCKYISSHCPRPAPVSRKTAHWAE VFFDLMREIRARKMEDSKEKNGKKRK SLAKRIRERCCIL
4784	12835	A	5667	1	635	MAANKPKGQNSLALHKVIMVGGSGVG KSALTQFMYDEFVED*EPTKADSSRK RVVLDGEEVQIGYPLDTAGQEDYAAI RD\NYFRSGEGFLCVFSITEMESFAATAE\ FREQILRVKEDENVFLLVGNKSDLEDK R/QVFSRKRQKNRAEQWNVNYVETSAK TRANVDKVFDDLREIRARKMEDIVYL NGTKNTKRLAERIREGGCIL
4785	12836	A	5668	2	178	WGFTMLARLVLS*SQVIHPPWLPKVLG LQALGSGSLHRSFFISVKGSSGFTAPSRR L
4786	12837	A	5669	208	339	RGQRLPVSRKWLLGTEEAVALR*STRLS LPKCWDYRHEPPCPAH
4787	12838	A	567	718	971	
4788	12839	A	5670	73	269	DKIFFFFF*DRVSLCRPGWSSVARSRLTA TSASQFKQFCLSRPSSWDYRHVPPRPA NFCIFSRDR/SFTMLVRLVLNS*PQVIHLP RPPKVLGLQA
4789	12840	A	5671	1	586	KKPYECKEKGAFSSGSNFTQHQRHTG EKPYECKEKGNAFSQSSQLKHQRHTGE KPYECKEKEKAFRSGSDLTRHQRHTGE KPYECKICGKAYSQSSQLISHHRIHTSEK PYEYRECGKNFNYPQLIQHQNLYW**N RIYEMCREAFNYGSKQNLSC**FL*IE*C/ SKHFICGLQLIQPGKNNVGEILYE

4790	12841	A	5672	2	355	LFLSFLFFSFFFFETGPHSVAQAVVQWL NHGSLQPLSGFKQSFRLLRLLSG*DYRC TPLRLASF*FFVEMGCHYVAQAGLQLL DSGDLPASASQRAGITDVSPCIWPPMSC YVKRT
4791	12842	A	5673	921	1086	TQPWYRHGGGGPKTLRQRSWSPCQAYH VPHACPSHHKNLSSRPRPWCPNATNML LSLKALQPPTLLSPLP*QVCRQGNPKQ RCRGP GATHHIPVHLWHSWPLLHTLPA RISAVQPSFPFKETLGQAEQNRWVPL GPGKQVLRERPLSHQREKREAQLTPRLL ARRPQAGEAAARRQGKGTAEGERG**D GPSKPSLVRARVRKRAGPKQGPSASA*P GPSTPNPPTTQGSHPREQAPATPMSS EENVLSSQQTARP/RPSPGTGMGVGLK PFVSVPGALAKLTMCPMHVLHITKTCPA AQGHGVHRMPQTCC
4792	12843	A	5674	2	70	
4793	12844	A	5675	2	118	
4794	12845	A	5676	446	756	ISFFLSFFLSFFFFEAEARSFTQIGVCSGTI SAHCKLCLPGSHSPASAS*VAGTTGAR HHTRLIFLYF**KTGFHRFSRDGLDLL/NL VIRPPRPKVGLQA
4795	12846	A	5677	2	276	LRWSFSLVQAGVQWCDLGSLOPPPSGF K*LSCLSLPSSWDYRSAPPCANFVFLVE TGFLHVGQA\CLELLTSSDLSTSAS\QSAG ITRREQ
4796	12847	A	5678	60	235	VRVLQIYHSLRLPGSHHPPRGDRLQGRG FLTACQPC*STYC*TFPPGVLGNTGRDLL L
4797	12848	A	5679	1	2059	MSSQEVTFEQRPEGDEGGAVELSRQQTQ QERRRQLGQTQLMYKWAKPKICSEDL GAVKLPASGVKTHCPCNPGFFKTNST CQPCPYGSYSNGSDCTRCAPGTEPAVG EYKWWNTLPTNMG/TRPFSVGSTSTR/C MTGWEVAGDHIYTAAGASDNDFMILT VVPGRFPQSVMAADTENKEVARITFVFE TLCVNCLEYFMVGVNSRTNTPVETWK GSKGRQAYTYIEENTTSYTCAFQRTTF HEASRKYTNDAAEIYSIICHPCY*MPWAS YAGPCAQKASEEGSSCTSCPAGYYIDRD SGTCHSCPPNTILKAHQPYGVQACVPCG PGTKNNKIHSCLYNDCTFSRNTPTRTFN YNFSALANTVTLAGGPSFTSKGLKYFHH FTLSLCGNQGRKMSVCTDNVTDLRIPEG ESGFSKSITAYVCQAVIIPPEVTGYKAGV SSQPVSLADRLIGVTTDMTLDGITSPAEL FHLES LGIPDVIFFYRSNDVTQSCSSGRST TIRVRCSPQKTVPGSLLLPGTCDGTCDG CNFHLWESAAACPLCSVADYHAIVSSC VAGIQKTTYVWREPKLCSGGISLPEQRV TICKTIDFWLKVGISAGTCTAILLTVLTC YFWKKNQKLEYKYSKLV MNATLKDCD LPAADTCAIMEGEDVEDDLILTSKKSLLG EDQIYLQEDS
4798	12849	A	568	480	683	
4799	12850	A	5680	1	1098	
4800	12851	A	5681	143	571	
4801	12852	A	5682	3	355	FEIGSCSITQAGVQRHD\CSPLPPPGFK QSPRPSLPSS*DHRCAPP CPASF CIP**RQ GFHHVQAGLELLTSGDPPALASQSAGI TGVSHQAWPPFGFLDRTL SIVSQKTNTN RP
4802	12853	A	5683	1	2472	RYDLALWPRLECSGAITARNKLLGSS NSPTSTSCI/C*GYRLIFFKFFVDTGSCYV AQAGFKLPASSDPPPKMLR\YRPA GHHA R/LCLTVNRTNVP

4803	12854	A	5684	5	298	TGSRVAQAQ*Q*H/DYQGSQPPPPRP M*SSHLSPRNWDYSHAPAKLFFFL DTGSHYVAQAGLKLGGSDPSTSASQSA GITGMSHRIQPHISF
4804	12855	A	5685	9	320	FIYLF/RDGVLLCCPGQSAVAFLRLTVTS T/FL*SPDGELLTL*STRLGLLKWWDYKG EPPRPVFLFCFLNV**RCSLAMLSRLVLN S*AQAIFLPQPSKVLGLQG
4805	12856	A	5686	2	438	FFFFSRLENFEFYNNKPFCTNPGPRGPPR VGPPFAPRRGAFSLPQGGPF*SLLFSRPN P/SGPLVRPGLPPTGALPCSVR*VDRSPLP YMVSPGPPGGLRGAGPGPVHPRGPEAP PRARGRGREGGPAESVTRFPWQLRGGH FQP
4806	12857	A	5687	243	377	
4807	12858	A	5688	1	867	
4808	12859	A	5689	1	874	TVLAFADGCGVLAHGRSRSYGRLGRRP YSREPLWSRGPGFTMSDEEARQSGGSS QAGAVTVSDVQELMRRKEIEIAQIKAN YDVLESQKGIGMNEPLVDCEGYPRSDV DLYQVRTARHNIICLQNDHKAVMKQVE EVALHQLHARDMEKQARDMAEAHKEA MSRKLQSESQGPRAFAKVNISISPGSP ASIALQVDDAEIVGVSGSVNTQNFQSLH NIGSVVQHS/EGGPGTHHTFCLYEFDYS RDLI*KPLNVTVIRRGKHLRLVPTRW AGKGLLGCNIPLQR
4809	12860	A	569	811	1481	GNGILLMVHHHCDAGTVIMRADRFIPGE DQKNRVLVNTVLVRISRAVDGKHL SAGI RHTVFRICHNACTQHRGLFRGFNVFGEF LRFAYILIVKENADQCAGFVGIELGEID RVMQALPDVEQAVTHACVINQAAATGG DARQLVGYLVQSFGFNINGNRHLTTTN PVGFPADK*GFPLMLPRVSGRNQHRIS/R VYLPCTATTLLRPGNGPPSSVRPRR
4810	12861	A	5690	30	512	TPVRDMAEAHKEA MSRKLQSESQGP RAFAKMNSIEPRLPQPSIAGLQVDEIVE FGSVN/TPQDFQSLQNNGNVVQVHSEK PPECQD*SARGEKHQKLKLVKNAAGPGK GLLGCNIIPSAKDELSPRGNSKQEKHPS PCPRTWVLGDFPTCPSSPLKA
4811	12862	A	5691	945	1358	KKQNFYITVHGFSCCLGRGKGQDRD GW ESRDGRFLSRSLTFPQFAIIRLVGQKEFS MLPKSFTLQILPRGSLSLDPQEQLSK*S MPHRAVQSPSRHALGNPKTAREGSAPRS PLTGRPRPPVAAG*CRACRGAPQVARPP QGDQHRGFRGAHSDWRVWRGWASPSL LPRSSSSSGIANQASVPESPERS/RPAL GGRSGSSPCRRP/PPKPPWRGAIGS*SGT WRRWLAGWRTRRPRAPGCARPARGPP SWPSRPQTGLAAGLSGAPSPSCRRCTP RRSRPPLPARWTPGAPACRRRPWS*SP GSTTAA
4812	12863	A	5692	3	316	FFFFFLRQSL/DSVAQAGAQHNPGLQA PPPRFTFPSRLSLPSSWDHRRPPPCPTNFS AFPVETGFIVLARMVISIS*PCDLLTSASQ SAGTTGTSHRARPIIFK
4813	12864	A	5693	2	769	LAIYKHAGGVFSFILLQTLNTYGPQDIT KGSVLAYWRLPGLCIIIYLVKQSAKDDFS YYDINRQSVSKLQNVQEQLPDEIKELRQ TITMPAGVDKSSTDQKYVQAGRRLGKVI QQSRLNCFPLVSYIIEICLIFLWRHLEY L/LHCMPTD/SQKSLFASR/TLF*KQKDCQ GFPSPQETQS*DF*KVGLAYSEANHGF*T QLSGLMPINGFLENHYPKRNFLDIEGL/YI SKVRFFGYSFQIALVRRIRGLLRISRN

4814	12865	A	5694	189	424	TLPISYQSSP...HNYQFLASGVGATLPI TPHPTS/ELPYRVSPSPSPRPPS*FSRTF QPP/V/PGPAH*PPDEIVEPG
4815	12866	A	5695	243	1660	AEPDTSPI*TPGQSGSS*GNTS/EPWTVTP PGLKMQQRVLCCTL*PP/RRLPVCRAA G*TRLDRA*ESGHPGPAVPREATGVPGA LPAQASVRSIWPALATCVATTVQTST/DA EVARQG/ICPAPHPAYPPA*PALCCPARA DPRGRVLQ**ADAVPGPPAI*AVHRAVS HPGGAQCPHPNPPAPQARVPRETCLPAL QLAAPVLRGAGATAASAPTEEEEEACLE EEEEEDSDEEDQSRGKDSEAWVPDSEE RLILREEFTSRMHQRFLDGDGDFDYST VDDNPDFDNLDIVARDEEERYFDEEEPE DAPSPELDGD*WPPPPPPAPSPSPTRQLI PGLLSDPFSRGTS/AAVPHNPHTPPSHWV *SHLRQPPPLFLGFPFSSLPPCLPLSFLV SVWASFCLFLSFCLSPYPRSLFPVLWLAV SPFLPLSLCLRLCLHRRAQGESPLAGGQ LAGPFVAGSGQFGSGADP
4816	12867	A	5696	7	558	GWLDLGLTKCVC*NAEVPCEWVRLMC MSVCASK/CGGGCGCLC/MASGHCECLG MCWSL*ACVFLSKNECLCVSLGTCQCL CLCVPVSHHL CIRVAHAASLCAMVCQC LCVDGWPMSPRQGRPGWLDPAHLPSG SLALWVRVTEAFCLGTGCSGSALRVA GGLPSLLPFRLVKRTPGGQGA V
4817	12868	A	5697	272	1146	GFLGLEGLSSSPQVAWATVPLWAQLQ GGLAGSCLGQILAPGPSEARDWWASLA GP*ERVEGADRPWRFHLSPEALVLAAG R/SKARASDPGRSSTLSLLHVLKVEKRR VNLPRVLSMPPVAGTACHAYDREVHLR CELSPGYYLAVPSTFLKDAPGEFLLRVFS TGRVSLSAIRAVAKNTTPGAALPAGEWG TGPIPG/CSWKFG\QTAGGHKNFASYPTN P/CVPLFGSPKGPGRCVRTLHQHCRA\S DTEFHPIGFHIFQVPEGGRSQDAPLLQ DPLLSCVPHR\TPRR
4818	12869	A	5698	281	535	
4819	12870	A	5699	1	1014	
4820	12871	A	57	1	1513	
4821	12872	A	570	961	1627	LPHPAVAVIQNVRSRGRFGHSPTLVVIPG NPRHSRTITLIKLLHGIIVIGRVKQRHPG CGQAKFIFFTLRQNKPNVVSGSTGRPKG VMVGQTAIVNRLWLMQNHYP LTGEDV VAQKTPCSFDVSVWEFFWPFIAKLV MAEPEAHRDPLAMQOFFAEYGVTTTHF VPSMLAAFVASLTPQTARQSCATLKQVF ADLCREWQQLTGAPLHNGLCVFLMR
4822	12873	A	5700	155	2916	QKKAAGVLPKGFYGTVPWQRAQQQFQ TDKAKGLTFLGGKAVHLS*/HLEREQPPR FAQPGTYASRWKALEEMEKQQREQVDR NIREAKEKLEAEMEAAARHEHQLMLMRQ DPGLALVSCMQQGQSMSRSPKKVFKHL YELNLTKLQSLGSRSLRWKDSPPFWGEE AGGKRPLVSLALHRSPSLLLLFVPKHPS KGRPDCTVQRSPKPTEKSQLDLRECISI HVGQAGVQIGNACWELYCLEHGIQPDG QMPSD

4823	12874	A	5701	37	1542	PREPTPPA/PPRQRTTRRRCGFTIDIKSF LKPGEVKTYTQRCRLFVGNLPTDITEEDF KRLFERYGEPSEVFNRDRGFGFIRLÆSQ NPWAEIAKAE LGRAPFLKSRPLRICFRL HMGAAFDCSRNLFFSLFFQLSCLEQAFS QFGS\VEKAGVVVDDRGVPTGK\GFVEF ASKNLPA TKRLWKRC CDGAFLLTTTPR PSPLWKPMEQFDDDEDGLAQRLLMHKTQ Q\YHKER\EQPPRFCSTWGHLKFEYQSR WKA\LDEMEKQQREQVDRNIREAKEKL EAEMEAARHEHQLMLMRQDLMRRQEE LRRLEELRNQKLQKRKQIQLRHEEEHRR RE\EDMIRHQKQEGLRQEQEGFKPNYM ENREQEMRMGDMGPRGAINMGDAFSPA PAGNQGPMMGMNMNNRATIPGPPMG PGPAHGTRRSRKYGNSQ* CQIMEQCTND RFPQGPSPQMGSPMGSRTF* NPLKHPM SGVGPVSGGPGGFGRGSP\GGNFE GPNN RRRY
4824	12875	A	5702	81	334	HNVHC*VPCGEVGSVIHCWWNGDNL* PS*KVSWKYESRAFKTSRPLDPTLLGI QSK*/YNKGHKDLDIRILITALFVVTCKL
4825	12876	A	5703	3	448	WGPEP*/PTRPTLDEGPGCGCGCSPSLP MGPPRGRGPPTSM SLLCRWPGVPLGSPP GCPPRARVKLFPHPGPDVSTSPPWAGHG AHQDP*GPVSGSESP/PPAGHWAPPASTS SPKIQAGL*PE\GMRTAQPPSVAVGSPQG SFRHKEGWG
4826	12877	A	5704	1	206	GSL*SPSPRFKRFSCLSLLSSWDYKHVPP HLANFCIF*RDWVSPCWLGSRTPD LH LSWPPKVLGLPS
4827	12878	A	5705	32	401	AFPDKLPWNFRLCQVNRCGISEWAGMS EMGMSDIQLSVGKLVAR/CWLQAE L*G* QFTKQER/CPSLTRSRWHGQPREGQAER PFLCAPPEGAPIGFLR*HHLRVQLAMAWI KFKMLGQSPLPYI
4828	12879	A	5706	252	415	PFCRPPRADSVTKQER/CPSLTWIRWHGQ PQGGQAERPFLRAPPEGASTGFLRQHH
4829	12880	A	5707	2	164	FFLYLFLFLRWSL/DSVIQAGVQWHD\I CSLQPLPPGFK*FSDCSTVLQPGRQSETG LKYYFFITV*EMESCSVIQAGVQWHDNLF PATASWVQVILRLLHCTPAWATE
4830	12881	A	5708	1334	1706	VRPHEGARAGPGGRGRGDPGLGARALP QPRVAVAGAACQPPSRLRHAGHRGPMV HAVGGSTFLGFRQ*LSSHSTRQCPSRD SVWGLQPHISLLHCP SRGSP*GPHPCHRL LPGHPGISIHLL
4831	12882	A	5709	57	376	KRGSLSGCPRPRVQW/RKTLAQ LQPSKL PGLK*TFP/CLSLK*TGHTCAPLCPNFF VFLT YLIEMGLTMLPRLVSYFWPQVFP SLASQSTGITGVSHHALAWWSMQ
4832	12883	A	571	803	1403	FNRRILKINGLTREQTS GVQQQIRQALSA LPLPVNRLEEFDNCREAWRKCAWLKD IESARLQHNQAYTEAMLTEYADFFRQVE SSPLNPAQARAVVNGEHSLLVLAGAGSG KTSVLVARAGWLLARGEASPEQILL\GL VAKPLKRWTS GFANGYIPKTLPHARFMR /*ALHIIQQGSKKVPVSKLENTACRHEL FIA
4833	12884	A	5710	9	264	PCPPNTIN/CPLGLRLPC/PPHLCPSLCLGK VGGP*KVPQTPSLGETELEQKKPPVPMA SGWTGGRNGGWEKSLRGKERRVFSQEG FP

4834	12885	A	5711	124	770	QYFPTATHGNVKKSLLSGKASLKRLHRV CCSCLFYIVQKQPKLNKTLFQSYICDQT TFRKSKGIINIKFIFFFEMESRSVAQAGM QWRNLGSLQ/PPPPGFMPLSCLSLSSWD YKRPPPCPANFFVFLVETGFTVLARMVSI S*PCDLPASTSQSAGITDVSHHAWHIKFK PEVTWRERGREEHVDRHIFRLDIRFTDT HFIKKELMRSDDL
4835	12886	A	5712	2	232	CLSLSS*YYGRMSRPANF*FLVETGFH HIGEAGLELLTLGDPPASASQGAGITGVS QRGQSLFAFLMSSTSFCK
4836	12887	A	5713	1	242	QAGVQWHDLGSLQPPPLGKQFSCSLP SSWDYRRVPPRLANFC/DFLVETEFHHV GQADLELRTSGNLPTSASQSAGITGVSH HA*PKVLGLQV
4837	12888	A	5714	1	133	ERLRYFRVEHLDQRLKAAENKFSY\CLM TWLKCWFWCLEKFIKFLNRNAYIMIAY GTNFCTSARNAFFLLMRNIIRVAVLDKV TDFLFLGKLLIVGSVGLAFFFFTHIRI VQDTAPPLNYYWVPILTIVVGSYLIHGF FSVYGMCDTFLCFLLEDLERNDGSAER PYFMSSTLKKLLNKTNKKAAES*RLRYF RVEHLDQRLKAAENKFSYVPHDLAQMR LLVPGEVHQIP
4838	12889	B	5715	166	969	MGSACIKVTKYFLFLNLIFFILGAVILGF GVWILADKSSFISVLQTSSSSLRMGAYVF IGVGAVTMLMGFLGCIGAVNEVRCLGL YFAFLLLILIAQVTAGALFYFNMGKLKQ EMGGIVTELIRDYNSREDSLQDAWDYV QAQVKCCGWVSFYNWTDNAELMNRPE VTYPCSEVKGEEDNSLSVRKGFCEAPG NRTQSGNHPEDWPVYQEGCMEKVQAW LQENLGIILGVGVGVAIHELLGMVLSICLC RHVHSEDYSKVPKY*
4839	12890	C	5716	300	347	MIHLPRPPKVLGLQA*
4840	12891	A	5717	316	797	APALPQPTGLAASSHMVQVPLWICLKLS HSKSRNSPQLFF*VFQFLRRSL/SSVPQAG VQ*HDLSSLQPP/PPGFTPFSCSLPSSWD YRCPPPRPAKFFLYF**RRGFTMLARMV SIS*PRDPPASASQSAGITGVSHRARPPP QFFIQLPLYNIHTLEGR
4841	12892	A	5718	2	519	WHPQSDVQAEVQWRDLGLLQSSPPAGF TLFSCSLSSWDYRRPPRPG*FLYF**R RGFTVLARMVSIS*LHDPALASQSAGIT GVSHRTRPGADL*PRVQKPRASLGG*NH MCNMKSLPTGQTRLNKGRRLGHPDHW RWKETPGL*CFHGNFCGALKAGRAHLD GQGR
4842	12893	A	5719	1	663	
4843	12894	A	572	3	1642	
4844	12895	A	5720	1	1561	MATSTGRWLLRLALFGFLWEASGGLD SGASRDDDLLPYPRARARLPRDCTVR AGNREHESWPPPPATPGAGGLAVRTFVS HFRDRAVAGHLTRAVEPLRTFSVLEPGG PGGCAARRRATVEETARAADCRVAQNG GFFRMNSGECLGNVVSDERRVSSSGGLQ NAQFGIRRDGTLVTGYLSEEEVLDTENPF VQLLSGVVWLIRNGSIYNESQATECDET QETGSFSKFVNVISARTAIGHDRKGQLV LFHADGHTEQRGINLWEMAEFLKQDV VNAINLDGGGSATFVLNGTLASYPDH CQDNMWRCPRQVSTVVCVHEPRCQPPD CHGHGTCVDGHCQCTGHFWRGPGCDE LDCGPS*LAAQHGLCNGSTGLSAVDAG WTGSNCSEECPLGWHGPGCQRPCKCEH HPCDPKTGNCVSRVKQCLQPPEATLR AGELSFFTRTAWLALTLALAFLLISIAA NLSLLSRAERNRRLHGDYAYHPLQEM

						NGEPLAAEKEQPGGAHNPFKD
4845	12896	A	5721	1119	2008	ALHPPAQGELFCDYFKDPSWSEGPQSPP LTRLAPHPQTQCTELSGGRRGSAVLEEC VPTPASAHLAASP AEAGTAGVWR*RHH F/HSTGLLGPR*LSMSLLMS*CKAGRCPP GEDCPRPLPGCSLSPLERKLCFSSA*GPA SFLGGLTAKASGCSLSLRP/HSHIQGHGL WEKL*VPARRAGGGVCFKSA/PHLQSL** KPSSKASKREG*Q*TLPSATIGELPFK*HA PKHLCNAQGFLCKIH*HHK/QTANAICA* GGPGSLEGTLRRPGSPSSLVGSGKTEV NSQNCRHLGREGVS
4846	12897	A	5722	3	444	FFFFLRLQSL/NSVI*AGVQ/QPLPPEFKRL SCLSLPSSWDYRCAPAHSANFCIFSKD/M GFTMLTRLVSNWQQ/CELP TLASQSGIT GVSHHTQPIYHFIFVETEFHHVAQAGVK /PPSLK*SSRLSLPKQWNYSHEPLYPALF NETFFFK
4847	12898	A	5723	1	6738	
4848	12899	B	5724	107	467	MRLHETLKQCQDLKTEKSQMDRKNQ SEENGDL SFKLREFASHLQQLDALNEL TEEHSKATQEWLEKQAQLEKELSAALQ DKKCLEEKNEILQGKLSQLEEHLSQLQD NPPQEKGEALX*
4849	12900	A	5725	149	577	GLLSTRPISCRHTL*GPLQSSWEYMDVP WDLRASEGNGKLLYSARDCTLQQIHVSF QKLDVEEPDSANSSFYSTRSAPASQASLR ATSTQSLARLGSPDYGNSALLSLPGYRP TTRSSARRSQAGVSSGAPPGE GTTGTYY
4850	12901	B	5726	24	219	MPRSSRTKSCRSSCGAWSSCMKENKELR AEAERLGHELQQAGLKTKEAEQTCRHL TAQVRS LGGTGX*
4851	12902	A	5727	272	683	
4852	12903	A	5728	1	406	
4853	12904	A	5729	211	5508	IWCLFPLSVHMG LIYSQKCLEEKNEILQG KLSQLEEHLSQLQDNPPQEKGEVLGDVL QLETLKQEAATLAANNTQLQARVEMLE TERGQQEAKLLAERGHFEEKQQLSSLIT DLQSSISNLSQAKEELEQASQAHGARLT AQVASLTSEL TTLNATIQQDQELAGLK QQAKEKQAQLAQT LQQEQASQRLRHQ VEQLSSSLKQKEQQLKEVAEKQ EATRQD HAQQLATAAEEREASLRERDAALKQLE ALEK

4854	12905	A	573	114	5270	SARSASFRPQ AARRPKCSHPLVPDGV PECCCKVHPASTNFPRTSTAARHSHHN DGSTSTMGRTWQI/VGYLVSQSGPLD SALQAQLRETLPPHMVPEVLLQLPQLPL NANGKLDKALPLPELKAQAPGRAPKA GSETIIAAAFSSLLGCDVQDADADFFALG GHSLLAMKLAAQLSRQVARQVTPGQV MVAHVAKLATIIDAEEDSTRMGFETIL PLREGNGPTLFCFHPASGFAWQFVLSR YLDP
4855	12906	A	5730	111	407	NLLRTMIFWFGFEDRVWLCCPVLATSV LTATS/TFPGFKQFSCSLSSWDYRCIPP HPGNLWYF**RQGFTMLARLDSNSGPQA IHPPQPPKVLGLHV
4856	12907	A	5731	3	613	GLRALRRGQGLPGL*CCSRPQPSRAQG HPSMGGPMQRVTPPRGMASVGPQSYGG GMRPPNSLAGPGLPAMNMGPVGRGPW ASPSGNSIPYSSSSPGSYTGPPGGGGPPGT PIMPSPGDSTNSSENMYTIMNPIGQAGR ANFPLGPGPEGMAAMSAMEPHHVNGS LGSGDMDGLPKSSPGAVAGLSNAPGTPR DDGEMAA
4857	12908	B	5732	134	471	MYAKGGKGSAPVSDSQAREKLALVYVE YLLHIGAQKSAQTFLSEIRWEKNIMPSPG DSTNSSENMYTIMNPIGQAGRANFPLG PGPEGMAAMSAMEPHHVNGSLGSGD MDG*
4858	12909	B	5733	223	692	MEPSPRAQGHPSMGGXMQRVTPPRGMA SVGPQSYGGGMRPPNSLAGPGLPAMN MGPVGRGPWASPSGNSIPYSSSSPGSYTG PPGGGGPPGTIPIMPSPGDSTNSSENMYTI MNPIGQAGRANFPLGPGPEGMAAMS AMEPHHVNGSLGSGDMDG*
4859	12910	B	5734	228	292	XLARDDHERVMGRQPRASLRA*
4860	12911	A	5735	1	1753	MYAKGGKGSAPVSDSQARENLSAFQAA TELTSLDRLALVYVEYLLHIGAQKSAQT FLSEIRWEKNITLGEPPGFLHSWWYGL GCCGVFWDLYCAAPDRREACEHSGEAK AFQDYETPERPAHRHGNAGRAGSSSGMI DVGGSSDPQILRPTTPVCSLTNASSLSHG AGHLQRGGGTPQSAAPSPVMGSMAP GDTMAAGSMAAGFFQGGPPGSPHNP NAPMMGPHGQPFMSRPFPGPRPTLRD GSQPPAGPPWVPSPPSGAMEPSRAQG HPEHGRPNARGVTPPRG/MGPAWGPR YGGGMRPPNSLTRPRACLPMNMGRPK FVGPPWAQPPVEYSIPYSSSSPGSYTGPP GGGGPPGTIPIMPSPGDSTNSSENMYTIM NPIGQAGRANFPLGPGPEGMAAAY/G GMEPHHVNGSLGSGDMDGLPREFPQAP VAGLSNAPGTPRDDGEMAAAGTFHAPS SQSENYSPGMTMSRVNWAAAPGALCG PRLPRRCLRAKGLKVTPTSGTLDLAN QGLPMLGGPTRKTLTLLKTQGPRETFFS VWTLPAICILVPERKALWGGPSSPGRQG GGAH
4861	12912	B	5736	315	458	NGPSRTQQPSLTDVLYCPEAIVSLVGVL RLAACQEHKRAPEVYVFT*
4862	12913	A	5737	202	402	
4863	12914	A	5738	1	3156	

4864	12915	A	5739	1	1470	MAPEENAGTKLLQSFERRFLAARTLRS FPWQVGGGASGEACGACGSPGADGMG LPAETPGAPATEGSHSALPTHSIACFNVP VNAPLRFLSLPSTRSLEAKLRDSSDSELL RDILQKHEAVHTELLDELYEALAETLMA KESTQGHWSYLLPRYPSCDKVKTPRKA RSHSPSTAIISHGTTGLVTWDAARYLAE WAIKNLAAFTNRTVLELGSGAGLTGLSI CKM/WPPPDHLDHCHSRVLEQLRGNVL LNGLSLEADITANLDSPRVTVAQLDWDV ATVHQLSAFQPDVVITADVLYCPEAIVSL VGVLRRLLAACWEHQWAPEVYMAFTVR NPETCQLFTTELAPSTCEGVLSLSHLTDK NTRTHRGQETPELPQIAARPPGFSFTVH PSPPLPPDFAPAPPEHSPSWQPCAKMHPQ QPLPAHRDMDDFVPHVVGQPVNYRANK QASTRRHTGFHDRVPHNLAQEAGQAWG SGLSSQHFRRLRQED
4865	12916	A	574	1	2967	
4866	12917	A	5740	2	413	
4867	12918	A	5741	3	231	
4868	12919	A	5742	83	1503	SWNTPYNHWATKQ/LSSHYSRGGAKYE GEAVKQSLVESYTHPNSNETERSANIDT VMNWFTKEDDFVTLCYREPDNVGHRF RPEAENRKLMIQIDRTIRPWDDHREEET QCQQDPLSNYIKFMDLVKFDIVGYGGFG MPLPKLGQEEALYQALKNAYPHLHIYK KEGFPEHFHLAKHDRVLPVVMYANFGYS INGISLLYFYTHLCDKYFNVHFFHEPLSL WRAQTTPSLSHRYISLVRHMDATNLDAS EAQLPGSPYPDSAPGPANLDSTQDLPQR RLSWPYPRPRPPNAHPGAPALQAPARTLLL TLPPGPAPSLPRTALGPPPLQSRPGFRPV SRQRCGPAHFMAPEENAGTELLQSFER RFLAARTLRSFPWQGGGGRAERPAGLA GVQGGQTGWVSVLKPPALLPREFLGSPRS GPRDPVPVPGAWPKSLAPLLPRELAAED EGVSTALGGQTRARCGVQFTIIFTTF
4869	12920	A	5743	266	477	DFSLSRPHGA*KON*ETHQILSCC/GDILH KTVK/HSCVCEAPAVRQICPVLSLRTHQK ARGCPHRAFGRAV
4870	12921	A	5744	148	592	SHVALGQLGWLTRAVRSSWRWELCVSS TGSGLPAPSLKQPKSCRCW*EEVKTGSC VGISHWQTST/VFPQAVFHLPPVLLPRSL ACLSCPRGCAQIR/CQ*TPPYPLFPILTY FGMLSSTVLIRHILETNKKEKSLAAEGV RHLQVS
4871	12922	A	5745	164	667	ERGTYICQITTSLYRAQQIILNIQASPKV RLSLANEALLPTLICDIAGYPLDVVVM WTREELGGSPSPSLWSSFSKPPQAKALAG TYSISSSLTAEPG/RLQVPLYTCQVTHISL EEPLGASTPGCPTRAENSLGSHLCQQSLP SCTDVPWGFDRDQAPNRTWAASG
4872	12923	A	5746	1	790	VEELSKKLADSDQASKVQQQKLKVGQL GEVWWPLDKGGKLFSLWGRGGLVYK WFLLYKISYATGIVGYMAVMFTLFLGLN LLFKIKPEDAMDFGISLLFYGLYYGVLER DFAEMCADYMASTIGFYSESGMPTKHL DSVCAVCGQQIFVDVSEE/EDH*EHRC CFHEFCIRGWCIVGKKQTCPCYCKEVDL KRMFSNPYPLLGSLLGVGCGKKVLASVT CIWVLLGPSLLPPTRTCQTMNNKKIMKV MMRIKRMMDTDMAS

4873	12924	A	5747	1	1005	FRGRAVKMAA VVEVEVVGGAAGEREL DEVMSDLSPREEQWRVEHARMHAKHR GHEAMHAEMVLILIALTLVVAQLLLVQW KQRHPRSYNMVTLFQMWVPLYFTVKL HWWRFVLWILFSAVTAFTVTRATRKPL VQTTPLRVYKWFLLIYKISYATGIVGYM AVMFTLFLGLNLLFKIKPEDAMDFGISLLF YGLYYGVLERDFAEMCADYMASTIGFY SESGMPTKHLSDSVCAVCGQQIFVDVSE EGDHVETTYRLSCNHVSHEFCIRGWCIVG KKQTCPYCKEKVDLKRMFSPNWERPHV MYGQLLDWLRVLAWQPVIIGVVQGIN YILGLE
4874	12925	B	5748	99	236	XTTSTSSTVTVTAPGPAATGSPVKKHRP LLPKETAPAVQRVVWNSSX*
4875	12926	A	5749	1	783	
4876	12927	A	575	1882	3402	LDASFWIPPKATQGMTWIFTFSSPSYNS S/CYAGWLKGSAPLQLSQPHHTAYIIFTS GSTGRPKGVMVGQTAIVNRLWMQNH YPLTGEDVVAQKTPCSFDVSQFFAEYGV TTTHFVPSMLAAAFVASLTPQTARQSCAT LKQVFCSGEALPADLCRVWQQLTGAPL HNLYGPTAAVDVSWYPAFGEELAQVR GSSVPIGYPGYLGRPDLTASRFIADPFA PGERMYRTGDVARWLDNGAVEYLGSR DDQLKIRGQRIELGEIDRVMQALPDVEQ AVTHACVINQAAATGGDARQLVGYLVS QSGPLDTSALQAQLRETLPPHMVPVVL LQLPQLPLSAKAGCPAAQVPRVAQVRV CAVLEDLGDIRESGERKQEADAVLGTQ DTPRVTSQPNGLLLKIEPQENVKIEGQH GLVWLCVAASPLVRVTREKEKKKEE GNNMRFTSLVLSVLVNIVRALEKKVLDI MFNNCRTGVQAITLSHRRALAIALAR YIKSALYDG
4877	12928	A	5750	1	1626	
4878	12929	A	5751	1	542	CGWNTGYCD/YPCQQAHPWEHIKSCTQS NATALQQGADVEVNTEPLNKSSQSSSST QSAPSETAISASKEKETSAEKSKESGSTL DLSGSRETPSSILLGSNQS SVSKRCDKAT LLCPNHHRPPAAPQLPRPEVPFPEL*NSR LSPPVFKKKGIRRVPIPTSTSTKSLLPKE SRLDTFWD
4879	12930	A	5752	1779	3628	MEISEDVYTAGHSDSESDSEKSDSSDSEF ISDDEQKSKDEPEDTEDKEGQMDKEPS AVKKKPKPTNPVEIKEELKSTSPASEKAD PGAVKDKASPEPEKDFSGKAKPSPHPIK DKLKGKDETDSPTVHLGLDSDSENELVI DLGEDHSGREGKKNKEPKESPKQDV VGKTPPSTTVGSHSPPETPVLTRSSAQT AAGATATTSTSTSTVTVTAPAPAATGSPV KKQRKLIPKETA\VQVRVRELK*SF KRPPKSGTCRRCSVSSSSSSSTSSSSHQS SQGTRYQTRQAVKAVQQKEITQSPSTSTI TLVTSTQSSPLVTSSGSMSTLVSSVNADL PIATASADVAADIAKYTSKLMDAIKGT MTEIYNDLSKNTTGSTIAEIRRLRIEIEKL QWLHQQELSEMKNLELTMAEMRQSW EQERDLIAEVKKQLELEKQQAVIDETKK KQWCANCKKEAIFYCCWNTSYCDYPCQ QAHWPEHMKSTQSATAPQAEADAENV TETLNKSSQSSSSTQSAPSETASASKEK ETSAEKSKESGSTLDLSGSRETPSSILLGS NQGS DHSR SNKSSWSSSDEKRGSTRSDH NTSTSTKSLLPKESRLDTFWD

4880	12931	A	5753	2	1711	RSEDSEKSDSDSEYISDDEQKSKNEPED TEDKEGCQMDKEPSAVKKKPKPTNPVEI KEELKSTSPASEKADPGAVKDKASPEPE KDFSEKAKPSPHPIKDKLGKDETDSP VHLGLSDSESELVIDLGEDHSGREGRK NKKEPKESPQDVVGKTPPSTTVGSHS PPETPVLTRSSAQTSAGATATTSTSTV TVTAPAPAAATGSPVKKQRPLLPKETAPA VQRISCGTSSTVQQKEITQSPSTSTITLVT STQSSPLVTSSGSMSTLVSSVNADLPIAT ASADVAADIAKYTSKMMDAIKGTMTEI YNDLSKNNTTWKAQLAEDSQGLRIEIEKL QWLHQQLSEMKNLELTMAEMRQSL EQERDRLIAEVKKQLELEKQQAVIDETKK KQWCANFKKEAIFYCCWNTSYCDYPCQ QAHWPEHMKSCQSAYCSSSRKADAE VNTETLKLSPSQSSSTQSAPFRKRPAP SKEK\ETFSLRKAKESGSTLDLSGSRETPS SILLGSNQSDHSRISNKSSWSSSDEKRG S\TRSDHN/TPSTQHGRSLLPGKESRAGTP FLGTSK
4881	12932	A	5754	1	191	MQK*ITAWAPAPMKIKIIASPERKYSVWI GGSIWPQLST/FQQMWISKQEYDESGPSI VHRKCF
4882	12933	A	5755	2	1203	LSRRCOLSHSVLPPLRRRVSLPVAMEEEI AALVIDNGSGMCKAGFAGDDAPRAVFP SIVGRPRHQGVMMVGMGQKDSYVGDEA QSKRGILTLKYPIEHGIVTNWDDMEKIW HHTFYNELRVAPEEHPVLLTEAPLNPKA NREKMTQIMFETFNTPAMYVAIQAVLSL YASGRTTGIVMDSGDGVTHTVPIYEGYA LPHAILRLDLAGRDLTDYLMKILTERGY SFTTTAEREIVRDIKEKLCYVALDFEQEM ATAASSSSLEKSYELPDGQVITIGNERFR CPEALFQPSFLGMESCGIHETTFSIMKC DVDIRKDLYANTVLSGGTMYPGIADR MQKEITALAPSTMKIKIIPPERKYSVWI GGASILASLSTFQQMWISKQEYDESGPSIV HRKCF
4883	12934	A	5756	3	412	SRFPEGLFQPFPPGMKSCGIHETTFHSH/ IKFDVAIRKDLYANTLLPGGNHQQVSGAL LTGMQKEIHAPAAQATLRFKIAPPGSAS TRW/VGSGVGSILASLSTFQQMWISKQE YDESGPLHSSTAKCFLNGLSQIA
4884	12935	A	5757	1	2297	MGRDWSLESLEEDRKMRESLEHARDL LNCCDQNADHHMDSEVQAEVVSEGDEE LIGKWSKAYCHRCEQKDDLKWELIFKRE AEHKSLEILQPDHVVEKKNPGGGRNQST SSSWVGTVAEITTIEAVKCKIQVLQQA DDAEERA\ERSQREFREERRARE\QAEAE VASLNRRIQLVEEELDRAQERLATALQK LEEAEK/SLADESERRY*RLFEN\ALKRL KEKIGTSREIQLK\EAKHIAEEAD\RKYEE VARKLVIIEGDLERTEVERA\ELAESRCR EMDEQIRLMDQNLKCLSAABEEKYSQKE DKYEEEEIKILTDKLKEAETRAEFAERSVA KLEKTIDDLDTNSTSGDPVEKKDETFFG VSVAVGLAVFACFLSTLLLVLNKCGRR NKFGINRPVLAPEGLAMSLHFMTLGG SSLSPTEGKGSGLQGHIIENPOYFSDACV HHIKRRDIVLKWELGEGAFGKVFLAECH NLLPEQDKMLVAVKALKEASESARQDF QREAEELLTMLQHQHIVRFFGVCTEGRPL LMVFEYMRHGDNLNRFLRSHGPDAKLLA GGEDVAPGPLGLGQLLAVASQVAAGMV YLAGLHFVHRDLATRNCLVGQGLVVKI GDFGMSRDIYSTDYRVGGRTMLPIRW MPPEILYRKFTTESDVWSFGVVLWEIFT YGKQPWYQLSNTAIDCITQGRELERPR

						ACPPEVYALWQREPSNATASRMC TPGCKPWPRHLLSTWMSWARGPAQGLG VVSRTGACPQHPP
4885	12936	A	5758	3	636	WAWNQAEAEVASVNGRIQLVEEELDCA QERLATALQKLEEAGKAADESERGMKV IENRALKDEEKMELQEIQLKEAKHIAEEA DRKYEEVARKLVIEGDLERTEVERAELA ESRCREMDEQIRLMDQNLKCLSAAEK YSQKEDKYEKEIKLTKLREAETRAEF AERSVAKLEKTIDDLEDKCLKCTKEEHL TQRM LDQTLLDLNEM
4886	12937	A	5759	1	239	QCCSGGTHGNPAIGDRWMQKQILPWAPA QMKIRFMAPPERKYSVWIAAPILASLSTS SRMWISKQEYDESGPSIVHRKCF
4887	12938	A	576	22	413	
4888	12939	A	5760	3	1458	ADPPPVHTRRQLTMDDDIAALVVDNGS GMCKAGFAGDDAPRAVFPISVGRPRHQ GVMVGMGQKDSYVGDEAQSKRGILTLK YPIEHGIVTNWDDMEKIWHHTFYNELRV APEEHPVLLTEAPLNPKANREKMTQIMF ETFNTPAMYVAIQAVLSLYASGRTTGIV MDSGDGVTHTVPIYEGYALPHAILRLDL AGRDLTDYLMKILTERGYSFTTTAEREIV RDIK/EEAVLRRPGLRARDGHVASSSLE KSYELPDGQVITIGNERFRCPEALFQPSFL GMESCGIHETTFSIMKCDVDIRKDLA NTVLSGGTHQFPLPCRPGC*KKITALEP ATMKIRIIA/PPEAQSTPLWNRGAPILAS LVHLPKMWQDQKSREYDESGPLPFVHR KICFF
4889	12940	A	5761	171	324	
4890	12941	A	5762	3	383	
4891	12942	A	5763	2	314	FFFFISALKALFAFLQILLFQVNVLRITAH IVISFINLLSVTPSKAFLLAFICREDYSF TAYATISYLKIGPKANLLNNEAYVITMQ VTKSTQNSFRVNGY
4892	12943	A	5764	1	176	MRTFALLTAMLLLVA/HAQAEPLQARAD EAAAEQPGADDQEMAHAFTHWESAA LPLSA

4893	12944	A	765	1	2674	GKHKLLSTGTEPWSIREKLCLASSVMR SGDQNWVSVSRAIKPFAEPGRPPDWFSQ KHCASQYSELLETTETPKRKRGEKGEVV ETVEDVIVRKLTAERVEELKKVIKETQER YRRLKRDAELIQAGHMDSRLDELCNDIA KKKLEEEAEVKKRATDAAYQARQAVK TPPRLPTVMVRSPIDSASPGGDYPLGDL TPTTMEEATSGVTPGTLPTPVTSPFGIPD TLPPGSAPLEAPMTPTVDDSPQKKMLGQ KATPPPSPLLSELLKKGSLLPTSPRLVNES EMAVASGHLNSTGVLLVGGVLPMIHG GEIQQTPTNTVAASPAASESVSQATIVMM PALPAPSSAPAVSTTESVAPVSQPDNCVP MEAVGDPHTVTVSMDSSSEISMIINSIKEE CFRSGVAEAPVGSKAPSIDGKEELDIAE KMDIAVSYTGEELDFETVGDIIAIEDKV DDHPEVLDVAAVEAALSFCEENDDPQSL PGPWEHPHQERDKPVPLPAPEMTVKQE RLDFEETENKGIHELVDIREPSAEIKVEPA EPEPVISGAIEVAGVVPATSMPEPPELRSQ DLDEELGSTAAGEILEADVAGKGDETPL TNVKTEASPESMLSPSHGSPNIEDPLEAE TQHKFEMSDSLKEESGTIFGSQIKDAPGE DEEEDGVSEAASLEEPKEEDQGEGLSE MDNEPPVSEDDGFSIHNTLQSHTLAD SIPSSPASSQFVCSQDQEAIAQKIWKK AIMLVWRAAANHRYANVFLQPVTDIA PGYHSIVQRPMDLSTIKKNIENGLIRSTA EFQRDIMLMFQNAVMYNSSDHDVYHM AVEMQRDVLEIQQLATQLIMQTSSEGI SAKSLRGRDSTRKQDASEKDGGTRGRR CAIEADMKMKK
4894	12945	A	5766	1	419	YANVFLQPVQDDIAPGSPSIGQRPMDL ST/IKKNI*NG*SEAPADFQR*HMLMFQN LLMYHSSDHYFYHIAVEMQRDVLEIQ QFLATQLIMQTSSEGISAKSLRGRDSTR QDASEMDGGTRGRVCAIEADMKMK K
4895	12946	A	5767	2	111	ISAKSAVGRDSTRKQDASEKDSVPMGSP AFLLSLF
4896	12947	A	5768	3	2884	GKHKLLSTGTEPWSIREKLCLASSVMR SGDQNWVSVSRAIKPFAEPGRPPDWFSQ KHCASQYSELLETTETPKRKRGEKGEVV ETVEDVIVRKLTAERVEELKKVIKETQER YRRLKRDAELIQAGHMDSRLDELCNDIA TKKLEEEAEVKKRATDAAYQARQAV KTPPRLPTVMVRSPIDSASPGGDYPLGDL LTPTTMEEATSGVTPGTLPTPVTSPFGIPD DTLPPGSAPLEAPMTPTVDDSPQKKMLG
4897	12948	A	5769	3	627	PRGENRFKAQPEWRKTPCMMMLSQSTF RKTIVYIGKIFTTILALPYVGKELNMIIML PDETTDLSTVEKDSHAKFVEWTSIDM MAEEEVKLSIPRFKLEESYDMESVLRNL GMTDAFEAGARANFSGMSQTDLSLVQR SCTKSICGRSNEGRPREAASPPKVAIIMM MRCAVFCPPPPAPDHPFLFIQHRVKTN GULFCGRFSSP
4898	12949	A	577	1	2148	
4899	12950	A	5770	3	626	YNLVTFRLAVLSFEKDDDHNGHIDFITA ASNLRAKMYSEPADRFKTKRIAVKILV KPTTTGTVSGLVCFEMIKVTGGYPFAAY KNCFLNLSHS/IFVVFTETTEVRKTKIRNG ISFTIWDRTVHGKEDFTLLDFINAVKE KYGIEPTMVVQGVKMLYVPVMPGHAK RLKLTMHKLKPTTEKKYVDLTVSFAPD IDGDEDLPGTSK
4900	12951	A	5771	92	265	SFELFADKVPKTA/WLDGKHVVFGKVKE GMNIVEAMERFGSRNGKTSKKITIADCG QLE

4901	12952	A	772	1	1310	GNSPPSELKVKSEDLRHRGLKAQAEI KGSTQQIGFTTDPMARSSPYPTDVARV VNAPIFHVNSDDPEAVMYVCKVAAEWR STFHKDVVDLV CYRRNGHNEMDEPMF TQPLMYKQIRKQKPV LQKYAELLVSQG VVNQPEYECVSMHGVRNKPSYNSTKSS MDGLILHPATGLVFVLSKQCEEIHQPVV WTCEQREAEENATAEENRVLLAMVNPTV FFDIAVDGEPLGRVSFEVGRAAACGNGA QKVGGRGRENFPCL*ATGEK\GFWL*GVP CFHRLFPRLVCVQGGE LQQRH*WPLVG KPHSMGKKI*KIEELPSLKHTGSPGILSP WQNAGPQTNGFPSFSICTAKTEWLEW PSHVVFWHK*KEGWMNIVEAHWSRFGS RNGKTQQRSPFADCGQLLISLTCVFILT TKIISFCRLRRAPLQPHLLAVS
4902	12953	B	5773	47	204	XQHTFCKRCGVQSFYTPRSNPGGFGIAP HCLDEGTVRSMVTEEFNGSDWEKA*
4903	12954	A	5774	2	402	CGDRGALRPPSCAGRS GPGPPRPPRPP LPWHPAPPAHGA PLARPGARARSEKPP SEKPRLRSSPRAQEEGPGEPPPELALLP PPPPPPPTPA PRPRRRP PGPGRAAGALG DVPEAAEAYLERVPPSSC
4904	12955	A	5775	2	241	FSCLSLKSWDYRALPPSPANLFLVETG FHHVGQASLKLTS GDPPASASQTVGIT GMSHAWPVSSFYIWSHWAPRNS
4905	12956	A	5776	22	643	VVEFPVLTMAATSGILSALGNFLAQMIE KKRKKENSRLDVGGLRYAVYGGFFFTG PLASHFFYFFMEHWIPPEVPLARVRRLLL DRLFFAPAF LMLFFLIMNFLEGK DASIT FAAKMRGGFWPAAEDET CRVWTP LQF ININYPFESSGCF GQPGQLLFWYAYL ALLGEVTTRWENIRCTCGRGSGGLHPPK REQKPIQSGCH
4906	12957	A	5777	23	448	ELESRSVTQAGVQWCDLGS LQPPPL/SF KQFSFLSLLSSWDYRHVPPCANVCILVE MGLVGQAGLELLISSDTPISVSQSAGIISV SHGTQPHIGNFLEQLKV VQLCYTSFLCFT KSSTVKHIQLIHKITLRNTKNKARI
4907	12958	A	5778	25	396	ISGRSTFSLFSRQGLSALSPRLE\CSVAISA HCNLR LPGSSN\GTTGA*HHTRLILYF/LA EMGFHHVGQAGFEVLTSSNPPASASTSA RITGMSNRT\GHLFNHP*MCYKYRCGS LAGRGGSRW
4908	12959	A	5779	80	460	YISLNVTHLIFFFFLRQGL\CSVTQAGV QWCNLGSLQPLPRFK\NWDYRCVTPH LANFVFLVEMGF/LPASASQSAGITGVSH CTQLGVFICICYGSSHGVRQSWHQFCSS KLLVKSGRVGVGLLG
4909	12960	A	578	222	666	SLCFCFLEVSLPACQETYGKSPFWLSIPF EDIARNLMKRTVCAKS\ FELWGHGQSPE ELYSSLKNYPVEKMVPFLHSDSTYKIKIH TFNKTLTQEEKIKRIDALEFLPFEGKVNL KKPQHVFVLEDEYGLDPNCIPENPHNIYF GRW
4910	12961	A	579	1664	1844	WQKLLFLFGTESCSVARVGVQWRHLSS PKPPPP\GSSNS/PASASRVAITGAHLHAR LIFVFL
4911	12962	A	5792	16	301	IFASTAPKRSWARLGPPQILVSVATKASF GAPTIPSRPGPQSVFANSDFPAPPQIPSR PVRIPP GIPPGVPRRPPAAPSRTIIRPAEP SLLD
4912	12963	C	5793	78	209	MSVFXXXXXXXXXXXXXXXXXXXXXNEET NHPLGVVYRLSDSTQYI*
4913	12964	A	5794	119	231	

4914	12965	A	795	69	909	EWCLLSPECHFHLIWGITELKTKRRGR KPSRPPMCYGKCARCIGHSLVGLAILCI AANILLVYFPKGETKNAS\ENHLSRFVWF FSGIVGRL/VLLMLPAQHFLHWGLEQD DC\CGCCGHEN\CGKRCAMLSVIGWLS IG\AGSGLLWSIV/VQPLGLARKDPLCLD S/LSGQWKLQPLSTEGPVTFWITSTWS\E CTEPKHIVKWNVSLFSILLALGGPELILC LIQVINGS/VLGGICGFCCSHQQQYGLAK RTNPGTEPQSFLYFHCNLSYLHLYSIC
4915	12966	A	5796	1	200	RGPVLLDTS/TWARCNEPKPI/VEWNDTL FSN/LLASGGIEFILCLIQVINGVLGGICGF CCSHQQQYDC
4916	12967	A	5797	2	424	RLSLTLVAQAAVQWHNLGSLQPPPGFK RFSCSLPSSQDHRHTPPCPA/NSFVFLVE TRLHHAGQAGLKLPTSG/DTSSASQSAR ITGVSHRARCWDSNSTIFLGLANSNWR NVFLIVGGERIKGKHTHFNTISMSEFEE
4917	12968	A	5798	46	626	
4918	12969	A	5799	1	1004	MWLILAGLAWAGLWVSDGLKDVLMVA KGKSRRGKSAPKHIMSLGPLLMIAFAICH FASVMGFHYLEVNLRLQQCFKYQLIETA FAVLVQSVLRIYSSRIWDKTSLECLKVLT GHTGSVLCLQYDERVIVTGSSDSTVRVW DVNTGEVLNLIHHNEAVLHLRFSNGLM VTCCKDRSIAVWDMASATDITLRRVLVG HRAAVNVVDFDDKYIVSASGDRTIKNR DKAEVAYTNLVWSTSTCEFVRTLNHGK RGIACLQYRDRLVVGSSDNTIRLWDIEC GACLRVLEGHEELVRCIRFDNKRIVSGA Y/DMGFSSLELLATWLPNA*GSFTAEL
4919	12970	A	58	1107	1365	HSGSAGMHWNLFLVHCMQAH*LFDR LHMM*CNRG*FALCTRC*DSGAN WDK*KNILPLRNFVGLGFNRDLGSRGW VPEV
4920	12971	A	580	3	439	
4921	12972	A	5800	1	3084	
4922	12973	A	5801	3	265	
4923	12974	A	5802	242	401	DLYAATYSHSHT/ILVWSTSTCEFVRTLN GHKRGIAQLQYRDRLVVGSSDNTI
4924	12975	A	5803	2	385	FVFAAARGERGFGAGVMEPDVIEDKT IELMLPKCMFGILLKKAGYSKRKESWK MLDCCLFSD*SERENPHSFWIGGSEVQNI FQNTSMEDQNEDESPKKNTLWQISNGT SSVIVSRKRPSEGNH
4925	12976	A	5804	1	1248	
4926	12977	A	5805	2	1653	RGGAAGAAMEPDVIEDKTIELMCSVPR SLWLGCANLVESMCALSCLQSMPSVRC LQISNGTSSVIVSRKRPSEGNQKEKDL IKYFDQWSESDQVEFVEHLISRMCHYQH GHINSYLPMLQRDFITALPEQGLDHIAE NLSYLDARSLCAAELVCKEWRVISEG MLWKKLIERMVRTDPLWKGLSERRGW DQYLFKNRPTDGPPNSFYRSLYPKIIQDIE TIESNWRCGRHNLQRIQCRSENSKGVYC LQYDDEKIISGLRDNSIKIWDKTSLECLK VLTGHTGSVLCLQYDERVIVTGSSDSTV RVWDVNTGEVLNLIHHNEAVLHLRFS NGLMVTCKDRSIAVWDMASATDITLR RVLVGHRAAVNVVDFDDKYIVSASGDR TIKVVSTSTCEFVRTLNHGKRGIAQLQY RDRLVVGSSDNTIRLWDIECGACLRVL EGHEELVRCIRFDNKRIVSGAYDGKIKV WDLQAALDPRAPASTLCLRTLVEHSGR VFRLOFDEFQIISSSHDDTILWDFLNVPP SAQNETHSPSGITYTYISR

4927	12978	A	506	1	180	NFKRFHKTIASASYWPK/DRHINQRN/ RESPVINPTTYGQLIVDKGAKNTQWGKD NYFN
4928	12979	A	5807	1	355	
4929	12980	A	5808	81	474	LGERRRASLSLSLTPGRRRGFKVATQER NPQRAQMRLRRQKKGVVFWGDFLTE LQ/MGLDSAIPGRPWMATPNKRSKEVRV LQEMQLLQVAAMNYRLRPLEKFVITYFT RMEQLSDKESYKLSCQLEPENQ
4930	12981	A	5809	3	383	
4931	12982	A	581	1	691	MDQDSASTKTCPGTHRKSGRPRSREQHG ALGAANAHDTVRDGERYDRWSGPRRRE QHGAALGAANAPDTVRDGERRSLRRDWR DCAEATADVSGVRSLSRLLSARRLALAL AKAWPTVLQGTGRGVHFTVDGNKRASA KVSDSISAQYPVVDHEFDVAVVGAGGA GLRAAFGLSEAEFDACVTKLFPTRSHT VAAQLENYGMPFSRTEDGKIYQRAFGG QSLKFGKGRQA
4932	12983	A	5810	1	148	
4933	12984	A	5811	3	1219	PGAMATLSFVFLLLGAVSWPPASASGQE FWPGQSAADILSGAASRRRYLLYDVPNP EGFNLRRDVYIRIASLLKTLKTEEWVLV LPPWGRLYHWQSPDIHQVRIPWSEFFDL PSLNKNIPVIEYEQFIAESGGPFIDQVYVL QSYAEGWKEGTWEEKVDERPCIDQLLY SQDKHEYRGRWFWGYEETRGLNVSCLS VQGSASIVAPLLLRNTSARSVMLDRAEN LLHDHYGGKEYWDTRRSMVFARHLREV GDEFRRHLNSTDDADRIPFQEDWMKM KVKLGSALGGPYLGVHLRRKDFIWGHR QDVPSLEGAVRKIRSLMKTHRLDKVFVA TDAVRKEYEELKKLLPEMVRFEPTWEEL ELYKDGGVAIIDQWICAHASS*SAAGEPE TSCAGAGGTGRPLT
4934	12985	A	5812	75	130	IHRE*VPAAQGELRGAAE
4935	12986	A	5813	1	1940	MATLSFVFLLLGAVSWPPASASGQEFWP GQSAADILSGAASRRRYLLYDVPNPPEGF NLRRDVYIRIASLLKTLKTEEWVLVLP WGRLYHWQSPDIHQVRIPWSEFFDLPSL NKNIPVIEYEQFIAGAQLSHAASFPKC FSEMDLKWMSFVPPQLEPLHPKKAATP GCYSRTRLRPVRKAVLRSGRRTACGVCF VVSQCSARDKELHLRDAPSRFVPAPEFH LRGAPSRFVPAPELHLRGAPSRFIPAAFE QILIADLLGVTVPSPWCGSGSGGPFIDQ VYVLQSYAEGWKEGTWEEKVDERPCID QLLYSQDKHEYRCLLRLPLPQGWRS QSQVSIAIKGSDTRPPVEKLSVNSLHVS SARAAGSKAWQGSASIVAPLLLRNTSAR FERWDYSLQRVFSVGVDFRIDGVTFHSH PWFCDRPADVFTRAAACKAGTCLQETQ SLLTWDFVQTRRSVMVFARHLREVGDEF RSRHLNSTDDADRIPFQEDWMKMVKVL GSALGGPYLGVHLRRKDFIWGHRQDVP SLEGAVRKIRSLMKTHRLDKVFVATDA VRKEYEELKKLLPEMVRFEPTWEEL ELYKDGGVAIIDQWICAHARFFIGTSVSTFSF SDS*GKEKFLGLDPKTDVQQVLRREG V

4936	12987	A	14	3	1286	PGAMATLSFVLLGAVSWPPASASGQE FWPGQSAADILSGAASRRRYLLYDVNPP EGFNLRRDVYIRIASLLKTLKTEEWVLV LPPWGRLYHWQSPDIHQVRIPWSEFFDL PSLNKNIPVIEYEQFIAESGGPFIDQVYVL QSYAEGWKEGTWEEKVDERPCIDQLLY SQDKHEYRGWFWGYEETRGLNVSCLS VQGSASIVAPLLLRNTSARSVMLDRAEN LLHDHYGGKEYWDTRRSVMFARHLREV GDEFRRHLNSTDDADRPFQEDWMKM KVKLGSAALGGPYLGVHLRRKDFIWGHR QDVPSLEGAVRKIRSLMKTHRLDKVFVA TDAVRKEYEELKLLPEMVRFEPTWEEL ELYKDGGVAIDQWICAHARCLPTSLSAE SGSGGFQRFPCPKYSVSEQMVACVHSGH FHTVCLLV
4937	12988	C	5815	164	391	
4938	12989	C	5816	321	341	MAALAS*
4939	12990	A	5817	128	526	FFFFIFKTASHSVVQAGVQWRSLSMQP PPPGLKQFSLSLGWSWIKGHLPHPSNFC IFSRDGVSPCWLGWSQTPGLRPQSPKC LGLTGCEATSPWPASLKFLKNCVFHLP YVYLLHVLGPRSCYKYLQKW
4940	12991	A	5818	3	273	RRPRQRPTDQTQWFSILPDFSLDLQEGPS VESQTHSDPHIPPVDPTTHLTFNHLIVC VSLTSLPHLGSPCLWSPALVSQEAASH QDRR
4941	12992	A	5819	1	861	MLDSSLALGGLVLLRDSVEWEGRSLLK ALVKKSALCGEQVHILGCEVSEEEFREG FDSINNRLVYHDFRDPLNWSKTEEF PGGPLGALRAMCKRTDPVPVTIALDSLS WLLRLPCTTLCQVLHAVSHQDSCPGDS SSVGKVSVLGGLHEELHGPVPGALSSL AQTEVTLGGTMGQASAHILCRRPRQRP NYQTQWFSILPDFQPGSPRGALCRVPA LIPHIPPKEREARDSLILPFQFSSEKQQA LLRPRPGQATSHIFYEPDAYDDLDQEDP DDDLDI
4942	12993	A	582	306	458	IYIFLLNCIFLIIIIYFETESCSVAQAGWV QWHDLGSLQALPPGFTFFF
4943	12994	A	5820	2	494	LGLLHEELHGPVPGALISLAQTEVTLG GTMGQASAHILCRRPRQRPTDQTRVSI LPDFSLDLQEGPSVESQPYSDPHIPPVSK NAKARTRKCSLVSGHGRENKSCRGWG WGQGF*GWGRVAASFVPAQVDPTTHLTF NLHLSKKEREARDSLILPFQFSSEK
4944	12995	A	5821	1	498	VRKVSVLGLLHEELHGPVPGALSSLAQ TEATLGGYH/VGQASAHMLCRRPRQRP TDQTQWFSILPDFSLDLKEGPSVESQPY DPHIPRVDPTTHLTFNLHLSKKEREARD SLILPFQFSSEKQQAALLRPRPGQATSHIF YEPDAYDDLDQEDPDDDLNILPGQI
4945	12996	A	5822	3	322	HERQMALLKANKDLIPDGMTELTPLLQP LGFEDPVVCEQDVVTAGQDWVTTYDR DYGQQVTGEPQERDKALQELRQELNTL ANPFLAKYRDFLKSHELPHPSS
4946	12997	A	5823	3	276	
4947	12998	A	5824	151	204	SGEPFISGRFWWLQDG/DLMTLPRLVS NSWLKQSSHLGLLKHWDYMSEAPHLAK NFLKAYEVVSLSFHVEGSGGCRMA
4948	12999	A	5825	175	456	IHFVLISAHAVGCEGILWGGWSLRGVGV PHSSAKRS*VGIRGPGKGRPGAQLPAGR ARASTEVPISGAPCPLLGAKNDRGLHAP KRTGTGPSNH

4949	13000	A	526	188	269	IHFVLISAHA EACSPGLQWATSFLASAWVSAPLLQMA HICPIILLGSLKGARATNRFRQSLFVQGV SFPARFPHLDLLQ*P*KNDWTDVSHLE QRGTNPG*RQE*SGPLQWRAGFLDGQC
4950	13001	A	5827	1	542	
4951	13002	A	5828	2	889	RGLRIPTWALQELAGRVTRRGPEGEGR REPGGSASPMRAAFPAGGAGGSVEPPSA RPAPQPAGTAARSEEAPARAQAAGMAG PGWGPRLDGFILTERLGSPTYATVYKA YAKKDTREVVAIKCVAKKSLNKASVEN LLTEIEILK GIRHPHIVQLKDFQWSDNIY LIMEFCAGGDLRSFIHTRRILPEKVARVF MQQLASALQFLHERNISHLDLKPQNWLL SSLEKPHLKLADFGFAQHMSPWDIEKH VLRGSPLYMAPEMVCQRQYDARVDL WSMGVILYGETSFPCFSP
4952	13003	A	5829	297	331	
4953	13004	A	583	47	358	SLLTPLVSPVPACPCPSKSESVPOEHPLP CRPLFRVWRNRQSRGCPQGVHYGAGA WGLLPVWKSCPPAKTCKWGLP/CPPC GRSCLHSGAALCLLCGSA
4954	13005	A	5830	3	405	
4955	13006	A	5831	3	408	
4956	13007	A	5832	1	530	
4957	13008	A	5833	198	1175	RANPFRMGNHAGKRELNAEKASTNSET NRGESEKKRNLGELSRTTSEDNEVFGEA DANQNGTSSQDTAVTDSKRTADPKNA WQDAHPADPGSRPHLIRLFSRDAPGRED NTFKDRPSEDELQTIQEDSAATSESLDV MASQKRPSQRHGSKYLATASTMDHARH GFLPRHRDTGILDSIGRFFGGDRGAPKRG SGKVPWLKPGRSPLSHARSQPGLCNMY KDSHHPARTAHYGSLPQKSHGRTQDEN PVVHFFKNIVTPRTPPPSQGKAEGQRP FGYGGRASDYKSAHKGFKGVDAQGTLS KIFKLGGDRSRSGSPMARR
4958	13009	A	5834	1	651	MGNHAGKRELNAEKASTNSETNRGESE KKRNLGELSRTTSEDNEVFGEADANQN NGTSSQDTAVTDSKRTADPKNAWQDAH PADPGSRPHLIRLFSRDAPGREDNTFKDR PSEDELQTIQEDSAATSESLDV MASQKR PSQRHGSKYLATASTMDHARHGFLPRH RDTGILDSIGRFFGGDRGAPKRGSGKRLT PPGKNCSLRVPAPEVTRPDPR
4959	13010	A	5835	3	208	
4960	13011	A	5836	71	394	APSARDVSRCAHRARPGAIMLLPSAAD GRGTAITHALTSVELEDKKELSESEDEEL QLEEFPMKLTDPKDWKNQDHYAVLGL GHVRYKATQRQIKAARKYLVILK

4961	13012	A	337	146	1910	APSARDVSRCAHRARPGAIMLLPSAAD GRGTAITHALTSASTLCQVEPVGRWFEA FVKRRNRNASASFQLEDKKELSEESQD EELQLEEFAMLTLDPRDWKNQDHYAV LGLGHVRYKATQRQIKAAHKAMVLKH HPDKRKAAGEPIKEGDNDYFTCITKAYE MLSDPVKRRAFNSVDPTFDNSVPSKSEA KDNFFEFTVPFERNRWSNKNVPLG DMNSSFEDVDIFYSFWYNFDSWREFSYL DEEEKEKAECRDERRWIEKQNGATRAQ RKKEEMNRIRTLVDNAYS CDPRIKKFKE EEKAKKEAEKKAKAEAKRKEQEAKEKQ RQAELEAARLAKEKEEEEVRQQALLAK KEKDIOQKKAIKKERQKLRNSCKIEEINEQ IRKEKEEAEARMRQASKNTEKSTGGGG NGSKNWSDDLQLLIKAVNLF PARTNSR WEVIANYMNIHSSSGVKRTAKDVGKAK SLQKLDPHQKDDINKKAFDKFKKEHGV VPQADNATPSEFEGPYTDFTPWTTEEQ KLLEQALKTYPVNTPERWEKIAEAVPGR TKKDCMKRYKELVEMVKA KAAQEQV LNASRAKK
4962	13013	A	5838	1	1909	DVSRCAHRARPGAIMLLPSAADGRGTA ITHALTSASTLCQVEPVGRWFEAFVKRR NRNASASFQLEDKKELSESEDEELQLE EFPMLKTLDPKDWKNQDHYAVLGLGH VRYKATQRQIKAAHKAMVLKHHPDKR KAAAGEPIKEGDNDYFTCITKAYEMLSDP VKRRAFNSVDPTFDNSVPSKSEAKDNFF EVFTVPFERNRWSNKNVPLGDMNS SFEDVDIFYSFWYNFDSWREFSYLDEEE KEKAECRDERRWIEKQNRATRAQRKKE EMNRIRTLVDNAYS CDPRIKKFKEEKA KKEAEKKAKAEAKRKEQEAKEKQ RQAE LEAARLAKEKEEEEVRQQALLAKKEKDI QKKAIKKERQKLRNSCKTWNHFS DNEA ERVKMMEEVEKLCDRLELASLQCLNET LTSCTKEVGKAALEKQIEEINEQIRKEKE EAEARMRQASKNTEKSTGGGGNGSKN WSEDDLQLLIKAVNLF PARTNSRWEVIA NYMNIHSSSGVKRTAKDVGKAKSLQKL DPHQKDDINKKAFDKFKKEHGVVPQAD NATPSEFEGPYTDFTPWTTEEQKLLEQ ALKTYPVNTPERWEKIAEAVPGR TKKDC MKRYKELVEMVKA KAAQEQV LNASR AKK
4963	13014	A	584	1248	1667	TNTGGWGPRHHA FVQHTLELLSLLCLNC GFLVYPFFLSWTVMYGSVNLVNLKYG FQGIVVFYYCVIKLKKIWLCLPRPRIVP WLPTSDPSLRSPSSMVLNQICRVYSATK RGSVTGSWAYPCVLSRGMMSELCKSRA
4964	13015	A	5840	3	231	SFFETESCSVAHPGAQWCDISSLP PPPPGV SSDCPASASRVAGITGTHHHA WPIFVFV VETGFHCLPQPPIVLGLQA
4965	13016	A	5841	2	300	RRRLALSPAGVHWHGLGSLQPPPPWFER FSCLGLLSGWDCRRAPPRPASFFVLVET GFRHV GKDGLDFLT/S/GDPPALASQGA WUAGVSHRTRPQIHFF
4966	13017	A	5842	227	290	
4967	13018	A	5843	1	225	HCNFPPLPVQAILGSSNSRASASRVAGTTG ALQHMQILIFCILVETGFHRVAQAGDLL SLTIHPPRPPKVLGLQA
4968	13019	A	5844	3	147	LEIFFFFSFTFF/CRWGLTMFIRLVNFW PQMILLPLPLPPKVLGLQA
4969	13020	B	5845	47	241	GGKDFNMPLTISRITPGSKAAQSLSQG DLVVAIDGVNTDTMTHLEAQNKIKSASY NLSLTLOK*

4970	13021	A	5846	3	408	CGGIPSQATIPFSTLISSVTSLNSTSFSTK VHTLSQNLVVFREPLKLTFLTL*ASAAF IALSN*SRT*RASWGVIC*DCMSSSRPPE DCFPK*YFCITDMPWLRKRNFFSTFQSK CRF*GTPICQKDKTSKK
4971	13022	A	5847	1	2209	AAADSTSMYSVTLTGPGPWGFRLOGG KDFNMPLTISRITPGSKAAQSQSLQGDV VAIDGVNTDTMTHLEAQNKIKSASYNLS LTLQSKRPIPISTTAPPVQTPLPVIPHQK DPALDTNGSLVAPSPPEARASPGTPGTP ELRPTFSPAFSRPSAFSSLAESDPGPPRA SLRAKTSPEGARDLLGPKALPGSSQPRQ YNNPIGLYSAETLREMAQMYQMSLRGK ASGVGLPGGSLPIKDLAVDSASPVYQAV IKSQNKPEDEADEWARRSSNLQSRFRIL AQMTGTETFMQDPDEEALRRSSTPIEHAP VCTSQAATTPLLPASAPPAASPSAASPP LATAAAHTAIAASATTAPASSPADSPRPQ ASSYSPAVAASSAPATHTSYSEGAAPAP KPRVVTASIRPSVYQPVASTYSPSPGA NYSPTPYTPSPAPAYTPSPAPAYTPSPVPT YTPSPAPAYTPSPAPNYPAPSVAYSGBP AEPASRPPWVTDDSFQKFAFGKSTTSIS KQTLPRGGPAYTPAGPQVPPLARGTVQR AERFPASSRTPLCGHCNNVIRGPFLVAM GRSWHPPEFTCAYCKTSLADVCFVEEQN NVYCERCYEQFFAPLCAKCNTKIMGEV MHALRQTWHITCFVCAACKKPFQNSLF HMEDGAEPYCEKDYINLFSTKCHCHFP VEAGDKVIEALGHTWHDTCFACAVCHV NLAEQPFYSKKDRPLCKKHAHTINL
4972	13023	A	5848	1	537	RTRGGDVKTDLNNIEEFLEETLTPEKYPI LAAKHREYNTEIDIFYKFSAYIKNTKQQ NNAALERGLTKALKKVDDYLNTPLPQE RDAYTCGEDKGTRRKFLADGDELATLAD CNLALPKLHVVKIVGKKYRNYHIPADMT GLWRYLKNAYARDEFTNTCAADSEIEL AYADVAKRLSRS
4973	13024	A	5849	1	654	WEGPTCSMCKVIGIHNACEEAPLHSVFH GQKTELNNCISMLVAANDRVHTITQLE DSRRVTKENSHHVNRKLSQKFDLYAIL DEKKSELLLRISQEKEKLIFIALIQYQY EQLDKSTKLVEAIQSLDEPGGATFLTA KQLIKSIVEASKGCQLGKTEQGFENMDF FTLDLEHIADALRAIDFGTDEEEEFIEEE DQEEEEESTEGKEEGHQ
4974	13025	A	585	334	696	IKPEMEAGISVTLGLDRNTRVQVGCREL RSTKYISGWASCTSIQPSGRELVCVUGE CLPLPVVPNWIGGGYGTKYWSRRSSQ EWAVCSMDKTRYPEDSQLCQDQGSTRT YKITVSSLPAS
4975	13026	A	5850	141	626	LLWILIAAPPPPPVIRNGARGCSPSTTIP NAWGQEP RP RP RP RP RP RP RP RP FLPPPLRNHRDSIHHCSGL/CLDDFESK YSFHPVEDFPAPEEYKHFSEDYPSKTNR AARGAPPLPILQVKPGLVPFLIKRMDL LFFSYGPLHSSSELLHDSS
4976	13027	B	5851	23	160	MQHVCAMRQVDIDAYTTCLYASGTTTPV PQLPLLLMALLGLCTLVL*

4977	13028	A	5852	221	1645	APRMRLLAWEFLANWGGARAEPGKF WHIADLHLDPDYKVS KDPPFQVCQSAGS QPRGPTQAPWGDYLCDSPIWALINSSY AMKEIEPEPDFILWTGDDTPHVPADEKLG EAAVLEIVERLTKLIREVFPDTKVYAALG NHDFHPKNQFPAGSNNIYNQIAELWKP WLSNESIALFKKGAFYCEKLPGPSGAGRI VVLNTNLYYTSNALTADMADPGQQFQ WLEDVLT DASKAGDMVYIVGHVPPGFF EKTQNKAWFREGFNEKYLKVVRKHHRV IAGQFFGHHHTDSFRMLYDYAGVSISA MFITPGVTPWRTTLPGVVNGANNPAIRV FEYDRATLSLKDMVTYFMNLSQANAQG TPR\WELEYQLTEAHGVPHATAHSMHT VLGRIVGDKSTLQRYIVVNSVSYSG VCDEACSMQHVCAMRQVDIDATTTCL YASGTTAVPQLPLLMALLGLCTTRAV TCQAHSSW
4978	13029	A	5853	3	126	AYGDSMCAKCVSDRIKHAFFIKEQKIIV KVLKAQAGSQKAK
4979	13030	C	5854	306	386	MLFLKAIWGGSDSWSREAACPLNCNL*
4980	13031	A	5855	709	1199	AGVGVRGTTGRLVVRKFLTIFGNPLFL VAPPKPHSEWSQRLTYRRRPSPYNTAL* QK/RRHRSHNQIPPRIVYLLYPRRLGKHP NSACGVCPRQEFEGVRAVRPKVLMRL SKTKKHVSRAVGGSNVCLNVFRDRIKR AFLNEEQKIVVKVLKAQAQSQKAK
4981	13032	A	5856	1	219	HRGYLLFNLFVEVISSEQSVLAPVRR*T CIVANLRGVGDPTSRHCAQGLGFKLLT LYSLLVGSESWGGARA
4982	13033	A	5857	112	312	LCTVCLWALKAGVGPEPERLIYSVPVFV */HAVCAGIADGGSFSSKVRCLEIIFYTG ISIKMFLYIK
4983	13034	C	5858	133	237	MFMDXXXXXXGGRFKGSLGGPKFTRAC KVKFFSL*
4984	13035	C	5859	61	177	MRIHKRLIDLHSPSEIVKQITSISIEPGVEV EVTIADA*
4985	13036	A	586	258	382	
4986	13037	C	5860	100	153	MSPPKSKGPFPRFPGRF*
4987	13038	C	5861	142	195	MSPPQSKGPFKFPGRF*
4988	13039	A	5862	11	90	
4989	13040	A	5863	3	759	TVPLEVVLLRKVGAAGGARGVIRLLDW FERPDGFLLVLERPEPAQDLDFITERGA LDEPLARRFFAQVLA AVRHCSCGVVH RDIKDENLLAVLRSGELKLIDFGSGALL MDTVYTDFDGTRVYSPPEWIRYHRYHG RSDTVWSLGVLLYDMVCGDIPFEQDEI LRGRLLFRER\VSPECQQLIRWCLSLRPSE RPSLDQIAAHPWMLGADGGAPEQ/DCDL RLCTLDPDVASTTSSSETLLRSLHLTGS
4990	13041	A	5864	1	422	
4991	13042	A	5865	2	435	ILAEFGSLHLEFLHLTELSGNQVFAEKVR NIRKVL RKIEKPFGLYPNFLSPVSGNWV QHHVSVGGGLGDSFYEYLIKSWLMSGKT DMEAKNMYEAE/HTKLGPEAFWFNS GREAVATQLSesyYILRPEVVESYMYLW RQTHNTK
4992	13043	A	5866	1	837	
4993	13044	A	5867	1	415	TKLGPEAFWFNSGREAVATQLSesyYIL RPEVVESYMYLWRQTHNPIYRIEWGWE VVLAEK YCRTEAGFSGIQDVYSSTPNH DNKQQSFFLAETLKYLYLLFSNEDDLSL EDWVFNTAEHPLPVNHSDSSGRAGGRH

4994	13045	A	868	1	1187	ESFHLNVSG...LFEVNIRYIGGLLSAFY LTGEEVFRIKAIRLGEKLLPAFNTPTGIPK GVVSFKSGNWGWATAGSSSILAEFGSLH LAEFLHLTELSGNQVFAEKVRNIRKVPQV SFEKPFGLYPNFLSPVSGNWVQHHSFG GLGDSFYEYLIKSWLMSAKTDLEAKNM YYG/APLEAIETYLLNVSPGGLTYIAEWR GGILDHKMGHLACFSGGMIALGAEDAK EEKRAHYRELAVQITKTCYESYARISDTK LGPEAFWFNSGREAVATQLSEE/YTYILR PEVVESYMYLWRQTHNP/SYREWGW VVLAEKYCRTEAGFSGDSKTCYSRHPQ PRTTSRQSFFLAETLNRCLVSACNGPDTG LEARDTAESETVISPAVKGSRGEKAMVR ETD
4995	13046	A	5869	1	1561	MIFVVIILMVVLSPEGGSGLDSSPFLSEA NAERIVQTLCTVRGAALKPYPTGPNFR YSHGVPPHLFAYFPPGSTVSQDNSFISPO LQHIFERVRQSADFMPRWQMLRVLEEL GRDWQAKVASLEEVFPAASIGQVHQG LLRDGTEVAVKIQYPGIAQSIQSDVQNL AVLKMSAALPAGLFAEQSLQALQELA WECDYRREAACAQNFRLANDPFFRV PAVVKELCTTRVLGMELAGGVPLDQCQ GLSQDLRNQICFQLLTCLRELFEFRFMQ TDPNWANFLYDASSHQVTLLDFGASREF GTEFTDHYIEVVKAAADGDRDCVLQKS RDLKFLTGFETKAFSDAHVEAVMILGEP FATQGPYDFGSGETARRIQDLIPVLLRH RLVSPPEGDLWPWHRKLAGAFLACAH LRDHIACRDHKPGHLPPLGQSPARRSH CRQPPHQRGTGWPWPHDSLHGGFSPQSR PYPVVPLIPSPSALGQSRPLGLPSLAWL SSLAPKTQESLGLGNSP
4996	13047	A	587	1637	1832	VFSTRCGTHPPVCLAEFVKRLRYCEYLG KYFCDCCHSYAESCIPARILMMWDFKK YYVSNSFKTA
4997	13048	A	5870	1	1532	MPQALERADGSWAWVLLATMVTQGL TLGFPTCIGIFFTELQWEFQANSSETSWFP SILTAVLHMAGPLCSILVGRFGCRVTVM LGGVLASLGMVASSFSHNLSQLYFTAGF ITGLGMCFSFQSSITVLGFYFVRRRVLAN ALASMGVSLGITLWPLLSRYLLENLWWR GTFLVFGGIFLHCCICGAIRPVATSVAPE TKECPPPPETPALGCLAACGRTIQRHLA FDILRHNTGYCVYILGVMWSVLGFPLPQ VFLVPYAMWHSVDEQQAALLISIGFSNI FLRPLAGLMAGRPAFASHRKYLFSALL LNGLTNLVCAASGDFWVLVGYCLAYSV MSGIGALIFQVLMDIVPMDQFPRALGLF TVLDGLAFLISPPLAGLLLDATNNF*DVF QQCPSPFP*SKAPLLKGSFPFPQKKEQ GKQAVAADAALERDLFLEAKDGPQKQR SPÆIMCQSSRQPRPAGVKNHLWGCPAS SRTSHEWLFWPKA VLQAKQTALGWNSP T
4998	13049	A	5871	946	1279	QTELGVRFPTLPFLGSGARGCSGFRVLF VDFRVQPGFRKENLIQGDFFMNRCQSS RQPRPAGVKNHLWGMSCP/ASRDPAMK WLLWPKA VLQAKQTALGWNSPYLECP V
4999	13050	A	5872	3	297	ESCSVTQAGVHW/CNLGSLQSPAPDSSD SPSSVSRVAGITGMCHHAQLIFVFWVETG FHHGEAGLCLRLPKCWDIRCEPPRLHL GLQLNFTYKDRCLA

5000	13051	A	5873	276	880	KADSEQHGRYSSSLAKKEVSKAPE DKKKRLEDDKRKKEDKERKKKDEEKVK ABEESKKKEEEEKKKHQEEERKKQEEQA KRQQEKVEAAAHMKEKEESIQLHQEAW RHHLKKELCSKNQNAPGSRPENFFSRL DSSLKKNTAFVKKLKTPEQQRDSLSHD FNGLNLSKYIAEAVASIVEAKLKISDVNC AVHLCS
5001	13052	A	5874	2	619	LDLDFNAILIVTSLAPFFQDCMSENALH ELNIELLRNKLYKSYLEAFYKCKNHGD VTAEVMCPILEFEADRRAFIITLNSFGTEL GQEDRETLYPNLGQLLSEGFALLAQAE DFDQMKNVADHYGVYKPLFEAVGGIGG KTLEDVIFYEREVQMNVLAFNRQFHYGV FYAYVKLKEQIRNIVWIAECISQRHRTK INSYIPIL
5002	13053	A	5875	1842	2306	GPRRLAAFLTSAGDGVYTRPVVFHDCTC ATFHREDAYRLPFIPTNHHTASPE*VPP HPHLGALQLPGDPSHDIHSIGTPNSNADA PKAGGCKWTQTRSVVPNSALGRKGSTH LPRIYTFTLALPETKLSNCPKPAPIGLEH TSLAWALGTAD
5003	13054	A	5876	301	471	
5004	13055	A	5877	269	394	
5005	13056	A	5878	524	604	
5006	13057	A	5879	187	401	VSCPGSNSPLGSSSASGASSLNFLPSVPV R*SVSGLNLRVPAMARAVTISGDVTKA WVSGFASLRPVKFL
5007	13058	A	588	1	856	MKRSMTLTIFHSERILRNRPKESWE DIEDFGETHDLFLKQYGFENGIPVHDTI ARVVSCISPAKFHECFINWMRDCHSSND KDVIADGKTLRHSYDKSRRRGAIHVISA FSTMHSLVIGQIKTDKKSNEITAPELLN MLDIKGGIITDAMVNCIVKVTGVFAING DQRVAEPDSGALCQVRYPGNHRNDQRY LFRHSDSELLHWMVALDAAVKRVKCL WMSLHKVYSCIPELPQPESAGHSGSQ YA*CNRTRPHGQKPGTSAPGSSGVWRIT SV
5008	13059	A	5880	667	888	AHTVHIRRSASRLPAGPASRLVDLSH*DL GHVP/AGFFLIMNVQQEGLADLSTSAHL LGAPLVKGSRPHAWADAW
5009	13060	A	5881	1	163	GLVDESFDTSPTGPSSADATTSVRAAK KRAPYTLVGSISEPGLGLISWWTN
5010	13061	A	5882	183	426	
5011	13062	A	5883	1	1152	MHNSDGIEVMRQQKAEIGRVGGLEGIQL GVTEVIVNGARMLESYNCKAELGATGL VNYQISVKCSNQFKLEVYLLNAENKVV DNQAGTQGQLKVLGTNLWWPYLMHEH PAYLYSWEGRPDGAQAVGALTPTGLAV EVWLTAKSLGP/SDFYTLPVGLRTVAV TESQFLISGKPFYFHGVNKHEDADIQK GFNWPLLKDFNLLCWLGANIFCTSHY PYTEEMLCICYRYGIVVIDECPAPSGHT GPSVPSLLARWQLFNNVSMHHHMWVV EEPVLDRDKNHPAMVMWSLAKEPASFL SAGYSFKSLTMEQTARVLDLDTGEAVLQ YRSLPRGAHKTGKKRKISSYNVDLTSC QLAKEKCLKGPSSFLQSRQERMNSELRD N
5012	13063	A	5884	401	882	CTNTPPTWTRGRMVIAHTKALDPSQPVT FVTNVTYAADKGALYVDVTPLNYSYSG YRNYGHLAELNQLQLAAIQFENWCKTSQ SHYSERVWSGNAL*GFHQDPPLMFQ*RG PGKVLLEQYHLGLDQKRRKYVVGELIW NFADFMTNQCVSFLVGNENSANL

5013	13064	A	885	197	1184	ETSHQVMD...PVKPALDYFLNRLVNY QISVKCSNQFKLEVCLLNAENKVVDNQA GTQGQLKVLGANLWWPYLMHEHPASL YSWEGRPDGAQAVGALTPGALAVEVR LTAQKSLGP/SDFYTLVPGLRTVPVTE WALYVDVIRVNSYYSWYRNYGHLELIQ LQLPAQFENWCKTSQSHYSERVWSGNA YRVSPGGGNLPHALPCCSQNLALPTFSP GTVVISLALSILGLWAQETGVLFIVVSQD PPLMFSEYQKSLLEQYHLGLDQKRRKY VVGELIWNFADFMTNQCKWQFSAWDN VPVLIFSGCLAHS GHFGCKNIGNKGGKL V
5014	13065	A	5886	1	657	
5015	13066	A	5887	76	614	VCQYCTARMADFGISAGQFVAVVWDKS SPVEALKGLVDKLQALTGNEGRVSVENI KQLLQCLVPGSTTLHSAEILAEIARILR PGG\CLFLKEPVETAVDNNSKVKTASKL\ CSALTLS\GLVEVKELQREPLTPEEVQSV REHLGHESDNLLFVQITGKKPNFEVGSS MQLKLSITKKS
5016	13067	A	5888	102	1292	ACQYCTARIVDFEISAGQFVA*VWDKSS PVEALKGLVDKLQAF/TPGNEGRVSVENI IK\QLLQSAHKESSFDIILSGLVPGKAPL WHS A*DFWAGNPPGFLRPGWMFFFLKE PVETAVR*Q*AKWKTASKLCSALTLSGL V/EKLKELQREPLTPEEVQSVREHLGHES DNLLFVQITGKKPNFEVGSSRQLKLSITK KSSPSVKPAVDPA AAKL\WTL SANDMED DSMCIFCGCSLTHRWPLEHVVRNMMI NQKEDRVDTFFTLDSKFPLEACSHFSFSL AETTTVSLIALNTLQDLIDSDELDPEDL KKPDPASLRAASC GEGKKRKACKNCTC GLAELEKEKSREQMSSQPKSACGNCYL GDAFRASCOPYLGMPAFKPG\AEKVLLSD SNLHDA
5017	13068	A	5889	1	747	MGFRYVAQAGLELLSSDPSIPSSKTLQEQ NDQSY PSTLPVFPEVALHTLLWGEDANN SKVKELQREPLTPEEIQSVREHLGHESDN LLFVQITGKKPNFEVGSSRQLKLSITKKS SPSVKPAVDPA AAKLWTL SANDMEDDS MDLIDSDELDPEDLKKPDPASLRAAS CGEGKKRKACKNCTCGLAELEKEKS EQMSSQPKS\CGNCYRGAMP SGASC YLGMPAFKPG\AEKVLLSDSNLHDA
5018	13069	A	589	148	333	
5019	13070	A	5890	2	152	YRHMAPHTNFLKK/FFCRDGGVLMLPR LVFN SWPQGILLPQPPKVLGLQV
5020	13071	A	5891	1	581	EKQSCKSCGETFNSITKRRHHCKLCGAVI CGKCSEFKAENSRQSRVCRDCFLTQPV PESTEKTPTADPQPSLLCGPLRLSKSGET WSEVWAAIPMSYPQVLHLQGSQDGRL PRTIPLPSCKLSVPDPEERLDSGHVWKLQ WAKQSWYLSASSAELQQWLETSTAA HGDTAQ\DSPGALQLQVPMGAAAP
5021	13072	A	5894	1	303	PCGARQCGGPPRL/CSSRRTSQELLSK PVPPPAPGGPASRVGRGSVSGALSPAWN GERQHHRGVVLT HPQSPNHQAGSPNPN TRQALATLSVPNKPFI
5022	13073	A	5895	1	284	ATESCSVAQGVQWCDLSSLQAPPPGFT PFSSLSLQGSWDYRSPPPHPANFFVVLVE /MASASQSAGITGVSHRTRPRIAIFNLTEN TNGSVDED
5023	13074	A	5896	3	338	GIHGWSYGGYLSLMAQMQRSDIFRVAIA GAPVTLWIFYDTGYTERYMGHDPDQNEQ GYLGSVAMQAEKFPS/EIYPQERHSIRV PESGEHYELHLLHYLQENLGSRIAALKVI
5024	13075	A	5897	1	1200	

5025	13076	A	5898	2	594	NRGSCHRGD LGAFKYKMGQIEIDDQV EG\QYLASRYDFIDLDRVGIHGWSYGG YLSLMALMQRSDIFRVAIAGAPVTLWIF YDTGYTERYMGHPDQNEQGYLGSVA MQAEKFPSEPNRLLLLHGFLDENVHFAH TSILLSFLVRAGKQYDLQIYPQERHSIRV PESGAEHYELHLLHYLQENLGSRIAALKV I
5026	13077	A	5899	74	248	KTLWMVNRTVLAGICSQQLSAGTAT/DV SKHRLQGFIPCRIPS/ASPQTQRKFSLQFH RNC
5027	13078	A	59	582	1303	GACSRAGLWLLGQGLLPRIYQLSEDCV SWSCVHQPLSPQSLIWARTELSSPDTQS GEDRKTsfvghQPTALGGLGQSIESLMS SEAETEERRCTWMQLSETNRTLFLFGVT KYTAGPYECEIWNSSGASRSDPVTNLL HGLDALTISSSYTYHTGEVPKLSCLIDT HPLAEHSWLIGGKFQQAQVFFIPQITKT YRGVYVCFIHNSATGGTNLIKRIIVPDHS LRSALSLEVTGS
5028	13079	A	590	311	576	
5029	13080	A	5900	258	552	CMVFHD/VSGACCCNGETTGKISGGGNQ LGSSPIGGPNPS/SGSSQTSISGDVVEACC SVLSMVCADPVYKVYVAALLLERELPG VFSGKIFNLLSDCLLW
5030	13081	A	5901	1	1660	
5031	13082	A	5902	1	1947	MALRRLSHDVSGALLLANGESTGNSGG SSGSSPSGGATSGSSQTSISGDVVEACCS VLSMVCADPVYKVYVAALQCMLLVTL EDPSSHFTMRMRRLM/AYADEVEIAEAIQ LGVEDTLDGQQDSF\CRHLFPTTWWKQPR TVP/LECTIHLEKTGKGLCATKLSASEDI SERLASISVGPSSSTTTTTTEQPKPMVQ TKGRPHSQCLNSSPLSHHSQLMFPALSTP SSSTPSVPAGTATDVSKHRLQGFIPCRIPS ASPQTQRKFSLQFHRNCPENKDSKLS VFTQSRPLPSSNIHRPKPSRPTPGNTSKQ GDPSKNSMTLDLNSSSKCDDSFGCSSNS S/NCCYTSDETVFTPVEEKCRLDVNTL NSSIEDLLEASMPSSDTTVTFKSEVAVLS PEKAENDDTYKDDVNHQKCKEAMEA EEEEALAIAMAMSASQDALPIVPQLQVE NGEDIIIIQQDMTFRHIIPPIQWIYKKESA NLLIDSTGQRLRIADFGAAARLASKGTG AGEFQGQLLGTIAFMAPEVLRGQQYGRS CDVWSVGCAIEMACAKPPWNAEKHSN HLALIFKLLDFANTACDGDKESEVEDV ETDSGNSPEDLRKEIMIGLQYQAEIPPYL GEYDGNEDKSPQPKMTGVQNAKEVLS T
5032	13083	A	5903	1	4491	PSPEAGGGGGALKASSARAAAAGLLRE AGSGGRERADWRRRQLRKVRSVELDQL PEQPLFLAASPPASSTSPSEPADAAGSG TGFQPVAVPPPHGAASRRGAHLTESVAA PDGASSPAAAEPEKRAPAAEPSAAA PAGREMENKETLKGHLKMDDRPEERMI REKLKATCMPAWKHEWLERRNRRGPV VVKPIPVKGDGSEMNHAAESPGEVQAS AASPASKGRRSPSPGNSPSGRTVKSESPG VRRKRV
5033	13084	A	5904	1940	2062	
5034	13085	A	5905	785	892	
5035	13086	A	5906	1	2745	
5036	13087	A	5907	1	3297	
5037	13088	A	5908	1	2202	
5038	13089	A	5909	1	2868	

5039	13090	A	591	279	602	FFLSEILSVSD...FIISNYYSQVINS LAVY RHRETDGFGVGRDHPGQ/PWQNPISHEK LDNLIIIIIGFLRRYTFNILFCTSCLCVSILT FCRGILVITNKNKLYKTK
5040	13091	A	5910	1	3237	
5041	13092	A	5911	1	2001	
5042	13093	A	5912	1	2982	
5043	13094	A	5913	1169	3269	VHCRFWILALCQMSRLQKSPLLNFNIVLE VLAKAIKQEKEIKGIQLGKEEVKLSLFAD DMIVYLENPTVSAQNLLKLMSNFSKVS YKINVQKSQAFLYTNNRQTESQIMSGLP FTITSKRITYLGIQLTRDVKDLFKENYKP LLKEIKEDTNKWKNIPCSWVGGRINLVK MAILPKVIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRALIAKSSLSQKNKTGGITLP DFKLYYKATVTKTSWYWYQNRDIDQW NRTEPSEIMPHIYNILFDKPDKNKQWG KDSL FNKWCWENWLAICRKLKLDPFLT PYTKINSR WIKDLHVRPKTIKTLEENLGN TIQDIGMGKDFMSKTPKAMATKAKIDK WDLIKLKSFC TAKETTIRVNRQPTWEKI FATYSSDKGLISRIYNELKQIYKKKTNNPI KKWAKDMNRHFSEEDIYA AKKHMKKC SSSLAIREMQIKTTMRYHLTPVRMVIKK SGNNRCWRGCGEIGTLLHCWWDCKLV QPLWKS VWQFLRDLELEIPFDPAPLLGI YPEDYKPCCYKDTCTRMFIAALFTIAKT WNQPKCPTMIDGIKKMWHIYTM EYYAA IKKDEFMSFAGTWMKLETHLRKLSQGG KTKHRMYSLIGGNLTMRTFGHSAGSHH TPGPIMRCGAGGGIALGEIPNVNDELMG TANQHGT CIPMQQNCTLC TCTLKLV
5044	13095	A	5914	2821	5794	
5045	13096	A	5915	457	651	
5046	13097	A	5916	3	637	KGDHVKHYKIRKLDNGGYYITTRAQFET LQQLVQHYSERAAAGLCCRLVVPCHKGM PRLTDLSVKTKDVWEIPRESLQLIKRLGN GQFGEVWNGTWNNGNTKVAIKTLKPGT MSPESFLEEAQIMKKLKHDKLVQLYAV VSEPIYIVTEYMNKGSLLDFLKDGEGR ALKLPNLVDMAAQVAAGMAYIERMNYI HRDLRSANILVGNGLICK

5047	13098	A	917	1	2523	MHWKRPWQSYLTLAATDTVQMLNY MSVRQLSYLNFPNTWQFLSWSQMPTQQ AYPCVTHHTHTPPVLGQMACCISNQRTA ALIGTRPERNVHVNLRQGFVVNAHEP WVNEKVARQEPEDAGRGAVNRAWGFS PRLIHWSEGPQAAALGDRDPRLPYHH AAALSGSHAAALSLAPSRSSALAVLIALL PAAQLHHHVPRSKACDIAYVGGHRRQV WYGQEDGQQILVVPVLLSTTQQKVSAL WADRLE\ RALLARSLAARLAPPSVHPCW V\VTFPSAVAWINAGSLDLFLKDGEGRA LKLPLNLDMAAQVAAGMAYIERMNYIH RDLRSANILMGNGLICKIADFLARLIED NEYTARQDPTSRGRHRSSAMNPYGSRA GRGRVESGLTLQMAATQVTQWSAHLV SGEAVAWNTFPTANQDRKELAALSCSCP STLCFMLLGLYPTLDHLQVRQSHCLTVS CAWQGLKPLFLWLAINKAEEICLTLKY WQADCELLASAYQHAWHTCARTQSSNL SIADIESLELVVKTFHQQKIFGLTSYSG MFVGTWNGNTKVAIKTLKPGTMSPEFL EEAQIMKKLKHDKLVQLYAVVSEPIYI VTEYMNKGGDEGTIREEIGQVKAPRRDN IPKPSAAHAAQLVMWHEVRLTRALCPF WGWLDSWHHFCVELHPTHPLITQKPKG KELTDVVHRSQFSGAQSRVESIWIQRSM TKTPGAKLQKQAYQGVSNPHHHHTGQ QLKAVPHPLMEAPDAIDGYRKILVNFTKI YSAFAVTNSDYEWQPTLVAIGYRCGDP QGTERRTQKPPTEVVTTQLQPQWLLRG HVGLVLLDHPIFKEKP
5048	13099	A	5918	74	1002	SNESNAVALSTVERTARRDAPQHGTQPR GLPRSSEHPAQRTAATGKARQRRKTTA SAGAREGRRRLAGTTSIPGF/FSAPVHR HRPQEPRQGPRTPRRAEEKRDQMASHV ECRPLGVFECELCTLAPYSYVGQKPPN TQSMVLLEESYVMKDPFTSDKDRFLVLG SCCSLCSRLVCVGPVGRMEVEQHGFHSV PSVLRTPESEKSLSICHLTHTKGSCINS QGDIMGQGRSLRSVAWEYLRLMEELV VQEKLGKEDCKGNSARLGEKESIKEDP QPARFSDGPGLECCSDVTERDDLQGG SS
5049	13100	A	5919	3	401	RSRGTRAAMASHVECRPLGVFECELCTL TAPYSYVGQKPPNTQSMVLLEESYVMK DPFTSDKDRFLVLGSCCSLCSRLVCVGP VG\CSLFYSKRFLPCVRENINAFQEIQR DLEKRKAPSKRTSPQGSRT
5050	13101	A	592	66	1474	TAPPPSPSPSSLLSPCNGVHVSTQPSCP GRGKMSKLLNPEEMTSRDYYFDSYAHF GIHEEMLKDEVRTLTYRNSMYHNKHVF KDKVVLGVGSGTGILSMFAAKAGAKK VFGIECSSISDYSEKIIKANHLNIIITFKG KVEEVELPVEKV\DIIESEWMGYCLFYES MLNTVIFARDKWLKPGGLMFPDRAALY VVAIEDRQYKDFKIHWWENVYGFDMTC IRDVAMKEPLVDIVDPKQVVTNACLIV WTLIRGGPGCAGSPAVPPWSPGNAGSCT APTWARAKVVRLRYEPEVRLEGHATLV TEGTTKERYQGPWKEPGAWLIGPEKVM EKSVLTPNVILDASYCWELAYQKIGEGV VWFIYITGGPKTQIAVLVQQEVDIYTV KTEELSFTSAFLQIQRNDYVHALVTYF NIEFTKCHKKMGFSTAMEEPCIPFVLSK EKVNNVVVTAQVESVLDEGEAG

5051	13102	A	5920	96	615	NILRNSIITS...YTTLSTTHSIFLFPQISP QMSLIGFFYESEANKGSHFFPGYVSCNL AETT/SLFYIICFLKSPDQGGNAQTMAY NITPLRRA/VECVQDQFGFINYEVDGSK KLFFHMKV/SRDQCASAWNVPSSLR GPKA/VAAPRP/DRL/VSRLKNITL/DAS DPR
5052	13103	A	5921	1497	2853	EMVLVSSSVWVMFVCSSTS VKFWMG SSHIADEVFTVVPDMLSAQRNHAIKK LPKGTVSFHSHTDHRFLGTVEKEATFSNP KTTSPNKGKEKEAEDGIIAYDDCGVKLT AFQAKDVEGSTSPQIGDKVEFSISDKORP GQQVATCVRLGRNSNSKRLLGYVATL KDNFGFIETANHDKEIFFHYSEFGDVDS LELGDMVEYSLSKGKGNKVS AEKVNKT HSVNGITEEADPTIYSGKVIRPLRSVDPT QTEYQGMIEIVEEGDMKGEVYFPGVGM ANKGDCLQKGESVKFQLCVLGQNAQTM AYNITPLRRATVECVKDQFGFINYEVDG DSKKLFFHVKKVQDGVIELQA/GDEVEF SVILNPAATGKVQAPCNVWR/VCEGPP RLLQAPRPDRVGSIRLKNITLDDASAPR LMVLRQPKGDQITSMGFGAERKIRQA GVID
5053	13104	A	5922	23	206	
5054	13105	A	5923	1	267	ALFRDKLKHMGKSTRKLFELARAFSEK TKMRKSKRKHLKHQSRLGAAASTANL LDDVEGHACDENFRGQASRRAPQGGG RPCREGQ
5055	13106	A	5924	1	267	FFFFLTDILLF/CLFLRWSFTVTQAGVQ WSDLGSLQPPPPRLKQFSCLSLLSSWDH KCLAPRPANFCSFSKDGVS PCWPGWSQT PHLR
5056	13107	A	5925	1	325	MGTSSGSWPRWSVTAMPPTSMRPCSRR SSSCWPCIPRLPASTAP*SMRPHSGPRMT TRSC/LT/RSYADGYSPPLNVAQRVVA/ W*GTQEKVMPPGRLAIPQRHRAQQQR
5057	13108	A	5926	366	489	QETTWPDLTKWLPG*RPWMGMSSGFW ARWSVTAMPPTSE
5058	13109	A	5927	228	754	
5059	13110	A	5928	1	2709	
5060	13111	B	5929	76	925	XQCFFLSADSRIAELLTELHQLSKQTQEE RSRSEHNLVNIQK THERMQTENKISPY RTKLRGLYTTAKADAEAE CNILRKALD MIAEIKSLLEERRSAAKIAGLYNDSEPPR KTMRRGVLMTLLQQSAMTLPWIGKPG DKPSQPSSPLVLAASKALQVLLGFLLYN LPCLSHRHHPQLSRLRLPLYSGDCISQE CLNLVFLADVWFGFLPSIYLVFLIILYEG LLGGAAYVNTFHNIALETSDEHREFAMA ATCISDTLGISLSGLLALPLHDFLCQLS*
5061	13112	A	593	379	475	DLQGVNHLRP/GVQDQPGQHGETLSLLK IQNN/LARRGGGRL/QSQLRLRLQDNRL NPGGGGCSEPRSRHCTPAWVTEQDPISK QNKRRQANFLIWEDFPYIPQGTKLIFTAQ KLPRCK
5062	13113	A	5930	3	1066	GSWGYQPTGLYAPTRR/GLNVLDWVQA HFPTDDFALAEFDGTNLYEHSDPREGYH QDWNTLIYNYGRREVSNFLVGNALYWI ERFGIDALRVDAVASMIYRDYSRKEGE WIPNEFGRENLEAIEFLRNTNRILGEQV SGAVTMAEESTDFPGVSRPQDMGGLGF WYKWNLGWMHDTLDYMKLDPVYRQY HHDKLTFGILYNYTENFVLP LSHDEVVH GKKSILDRMPGDAWQKFANLRAYYGW MWAFFGKKLLFMAAKIAGLYNDSEPPR KTMRRGVLMTLLQQSAMTLPWIGKPG DKPPPLCGAIPASGDYVARPGDRLLARL

						KPLNGERA R	PEGGQVTAIATQQGM
5063	13114	A	5931	53	506	FFVFLVEMGFHHVQGAGLELLNSSDLPS SASQSAGIYRCEPLCPAFFFFFSETESRSV AQAVVQWCDLSSLQPPPHFKRFFCLSL LSSWDYRHVPPCLANFCIFVEAGFHHV GQAGHKLLISSDPPASVSQSAGITGMSHC IQPHSPVFS	
5064	13115	A	5932	1	346	SANATTKTSETNHTSRPRLKNVDRSTAQ QLAVTVGNVTVIITDFK\EKTRSS\TSST VTS\SAGS\EQQN\QSSSGVQRAPDKGLPP RSLPTPKGDMS\AVNDEIFPELATWNCEK L	
5065	13116	A	5933	1	915	MGKEKTHINIVVNGHIDSGKSTSTGHLY KCGGINKRSIKKFEKKAEMGKGSFKSF VCDSSWYIPGHRDFITNIFTGTSQADCAV LVVAAGVGEFEAALLQDVYKIGIGTV PDGQVETVALKPGVVITFAPVNTTEVK SVKMHHEALSEAFSGDNVGFHVKNVSV KDIHCSNNAGNCKNDPPMEAAGFTAQVI VLNHPGQ/DCHMAHIAACKFAELKEKIDR SSGKKLEDGPKFLKSGDVAIIDMVPGKP MCVESFSDYPPLGCFAACDMRQTVALG VIKAADKKAAGAGKVTKYPQKAQKAK	
5066	13117	A	5934	1	759		
5067	13118	A	5935	30	706	KLPLKAKMGKEKTHINIVVIGHVDSGKS TTTGHLIYKCGGIDKRTIEKFEKEAAEMG KGSFKYAWVLDKKAERERGITIDISLW KFETSKYYVTIIDAPGHRDFIKNMITGTS QADCAVLIVAAGVGEFEAVIFKNQQ\TR EHALLAYTLGGKQLIVGVNKM DSTEPY SOKKYEIVNEVSTYIKKIGYNPDTRAFV PISGLNGDHMLEPRANMPWFKGWKSHF	
5068	13119	A	5936	1	706	QSEQPCALPSRESTKLGGIGTVSSAPMET \GFSNPGMVVTFAPSPR*QRKV\SAKMH \HEAL\SEALSQEQLGASNVKNVFCQGM FRPWQTVAG*PAKNDPTQWEASWLSLL QVIL\NHPRPK*GAGPMPLYLDCHTA\HI ACK\FAELKEKIDRR\SGKKLEDGPKFLK SGDAAIVDMVPGKPMCYESFSDYPPLG RFAVRDMRQTVAVGVKA\VDKKAAGA GKVTKSAQKAQKAK	
5069	13120	A	5937	364	458	VIEHLVSQDGLDFL/NLVICPPRPPKVLGL QA	
5070	13121	A	5938	1	266	EMESRSIARMECSGSISAHCKLRLPGSH HSPASVSRVAGTTGTCHHARLIFYF/LL ETGFHCVSHDGLHLL/NLVICPPRPPKVL GLQA	
5071	13122	A	5939	1	201	PPTGP/PKLPDPVHLPFGPPPSAWALPG MSPPSPDPDRNKLRIIRILKNASLSYLQVE VFYPKMP	
5072	13123	A	594	2	307	QAGV**WDLGSLQPLPRLKQFS/CILNP GNLSKEF*STKETQONIFVGHISQTSKF AISLIQIHPINMRSGTKTFMMV*GNKQRS KFPIWTFKIFPDMLPS	
5073	13124	A	5940	2	142	ESIQDYKHLCDLSFCQLPPDPPLTVPQ THNARDQWLQDAFHSL	

5074	13125	A	5941	1	432	IHDELSRAARNDGPRHAAGANAGPA AGPRRPVNLDLSALARKEMLSA/VGLR QLDMSLLCQLWGLYESIQDYKHLCCDL SFCQDLSSSLHSDSSYPDAGLSDDDEPP DASLPDPPPLTPVQTHNARDQWLQDAF HISL
5075	13126	A	5942	3	696	VSMGALGLEGRGGRLQGRGSLLAVAG ATSLVTLLAVPITVLAVLALVPQDQGG/ LGFQKLPEEEPETDLSPLPAHLIGAPL KGQGLGWETTKEQAFLTSGTQFSDAEG ALPQDGLYYLYCLVGYRGRAPGGGDP QGRSVTLRSSLYRAGGAYGPGTPELLE GAETVTPVLDPARRQGYGPLWYTSVGF GGLVQLRRGERVYNISHPDMVDFARG KTFFGAVMVG
5076	13127	A	5943	1	743	MGALGLEGRGGRLQGRGSLLAVAGAT VSLVTLLAVPITVLAVLALVPQDQGG TETADPGAQAQGLGFQKLPEEEPETDLI PGLPTAHLIGAPLKGHGLGWETTKEQA FLTSGTQVSDAEGALPQDGLYYIYCLV GITGRAPGGGDPQGRSVTLRSSLYRAG GAYGPGTPELLEGAETATPVLDPARR QGFWPLWYTSVGFGLVQLRRGERVYV NISHPDMVDFARGKTFFGAVMVG
5077	13128	A	5944	1	588	MGFLHVGQAGLKLLTSGHYQKKRMFSE NEENVKRMKTSEQINENICVSLERQTAFL EQVPESFEHLPLPEPPAPLPELVDKTRD TLPPQKPELKVKRVFRPNGIALTNITKI NPKCAPEEKYPLFLCHENSNNKLIWKKI GEIKALPLMACTLSQFLASNRYFTVQ SKDIFGRYGPFCDIKSIPGFSENLT
5078	13129	A	5945	3	495	EDTGTFRIYESAGAVKKARGFLEFVEDF IQVSKNLIGKVIKNGKVIQEIVDKSDMV PVRIEGDSENKLPREDKDDRDSRHQDS RRCPGGRCRSVSGRRGRGGPRGGKSSIS SVPKDPDSNPYSVLDN/TESDQTADTAS KSHHSTNRHTRSRRRTDEDAVL
5079	13130	A	5946	1	2065	MAELTVEVRGSNGAFYKGFIKDVHEDSL TVVFENNWQPERQVPFNEVRLPPPPDIK KEISEGDEVEVYSRANDQEPGWLLAK VRMMKGEFYVIEYAACDATYNEIVTFER LRPVNQKTVKKNFTFFKCTVDVPEDLRE ACANENAHKDFKKA/GACRIFYHPETT QLMILSASEATVKRVNLSMDHLRSIRTK LMLMSRNEEATKLECTQLAAAFHEE FVVREDLMGLAIGTHGSNIQQARKVPGV TAIELDEDTGTFRIYGESADAVKKARGFL EFVEDFIQVPRNLVGKVIKNGKVIQEI DKSGVVVRVRIEGDNENKLPREDGMVFP VFVGTKESIGNVQVLEYYHIAYLKEVEQ LRMERLQIDEQLRQIGMGFRPSSTRGPEK EKGYATDESTVSSVQGSRSYSGRGRGR GPNYTSGYGTNSELNPNSETESERKDELS DWSLAGEDDRDSRHQDSRRRPGGRGR SVSGGRGRGGPR/GGKSSISSVQYRSNIH NCSTLKRIFLASDMNIVLKDPSNPYSLL DNTESDQTADTDAESHSTNRRRRSR RRTDEDAVLMDGMTESDTASVNGLD DSEKKPQRRNRSSRRRFRGQAE/DRQPAI DFIYKEVEKVSLWQAKDVIEEHGPSEK AINGPTSASGDDISKLQRTPGEEKINTLK EENTQEAAVLNGVS

5080	13131	A	5947	1	1876	MADVTVEVRGSNGAFYKGFIKDVHEDS LTVVFENNWQPERQVPFNEVRLPPPPDI KKEISEGDEVEVYSRANDQEP CGWWLA KVRMMKGEFYVIEYAACDATYNEIVTFE RLRPVNQNKTVKKNITFFKCTVDVPEDL REACANENAHKDFKKA VGACRIFYHPE TTQLMILSASEATVKRVNLSDMHLRSIR TKLMLMSRNEEATKHLECTKQLAAAFH EEFVVREDLMGLAIGTHGSNIQQARKVP GVTAIELDEDTGTFRIYGESADAVKKAR GFLEFVEDFIQVPRNLVGKVIGKNKQVIQ EIVDKSGVVRVRIEGDNENKLPREDGMV PFVFGTKESIGNVQVLLLEYHIAYLKEVE QLRMERLQIDEQLRQIGRSYSGRGRGR RGPNYTSGYGTNSELNPNSETESERKDEL SDWSLAGEDDRSRHQDSRRRPGRGR RSVSGGRGRGGPRGGKSSISSVLKDPDS NPYSLDNTESDQTADTDA\SESHSTN RRRR/SIRRRRTD\EDAVLMDGMTDSDT ASVNENGLVTVA\DYISRAESQSIQRNLP RETLAKNKKEMAKDVIEHGPSEKAING PTSASGDDISKAT/RVLRGEEKINPLKEE NTQEA AVLNGVS
5081	13132	A	5948	1	392	TESERKDELSWLAGEDDRSRHQDS WRRPGGRGRSVSGGRGRGGPRGGKSSIS SVLKDQSPNPYSLDNTESDQTADTDA SESHVSTNRRRRSRRRRTDEDAVLMDG MTVESDTASVNENGLGKRC
5082	13133	A	5949	269	973	PAACPSANNICFYGECSYYCSTEHALC GKPDQIEGSLGVAFLPDL SLAKRKTWRN PWRRSYHKRKA EWEVDPDYCEEVKQT PPYDSSHRILDVMDMTIFDFLMGNMDR HHYETFEKFGNETFIHLDN GRGFGKYSH DELSILVPLQCCRIKSTYLRLQLAKE EYKLSLLMAESLRGDQEPVLYQPHLEA LDRRLRVVLKAVWDCVERNGLHSVVD DDLDEHRAASAR
5083	13134	A	595	374	665	GAQGLSLSPRLECN GAILAHCNLCPLGSS NSPGSAS*VAGTIGMHHRMLMFVFLVE SGFHHVGQAGLELLTSSDPPASASQSAGI RGISRRAGLDF
5084	13135	A	5950	1	106	
5085	13136	C	5951	146	280	MVFKDQKMRFCFCNQXXXLMLNLXXX XXXVLREKKGGSPFVFL*
5086	13137	A	5952	2	1929	MAAAA VDSAMEVVPALAEAAPEVAGL SCLVNLPGEVLEYILCCGSLTAADIGRVS STCRLRELQSSGKVWKEQFRVRWPSL MKHYSPTDYVNWLEEKVVRQAGLEA RKIVASFSCRFFSEHVPCNGFSDIENLEGP EIFFEDELVCILNMEGRKALTWKYYAKK ILYYLRQQKILNNLKAFLQPPDDYESYL EGAVYIDQYCNPLSDISLKDIAQIDSIVE LVCKTLRGINRRHPSLTFIAGESSMIMEIE LQSQVLDAMNYVLYDQLKFKGNRMDY YNALNLYMHQVLI RRTGIPISMSLLYLT ARQLGVPLEPVNFP SHFLRW CQGAEGA TLADIFDYIYIDAFGKGKQLTGKECEYLIG QHVTAALYGAVNVKKVLQRMVGNLL SLGKREGIDQSYQLLRDSL DLYLAMYP DQVQLLLLQARVYFHLGHWPEKSFCLV LKVLDLQHIQTLDPGQHGA VGYLVQ HTLEHIL/ERKKEEVGVGVKLARSDEKHR DVCYSNGLHYGRHKRYGL/N*LC*FYGW GPHLAWMGHELD SRNMNVHSLPHGHH QPFYNVLVEDGSCRYAAQENLEYNAEP QEISHPDVGRVYSQRFT RTHYIPNAEL EIRYPEDLEFVYETVQNIYKCKRKENIE

5087	13138	A	5953	3	364	FFSPETESHCHAGVQWQMLGSLQSP PFSCSLPSSYDYRHAPLHRANFLLFLR DGVSACWPATAPGLLLIFFGRAPWLM IPAPREAEAGGSLEARSSRPASLFQV SFFS PFFHMF
5088	13139	A	5954	2	114	FFFFGRDK/SLTMLPRLVSNCWAQ GILPS WPPEVLRLQA
5089	13140	A	5955	3	139	FFFFFETETHTVARAGVQWCHLAS LQPL PAG\SSHSP\AAASHVAS
5090	13141	A	5956	274	363	
5091	13142	A	5957	7	1047	
5092	13143	A	5958	7	960	
5093	13144	A	5959	2973	3400	GIIFMCPDMYTSKTFCLKACLFALFF FIYF IYFFLVGIMEEYIKMCNIPQVGIFSK YLP *SLSV*FFFETESCFVTQAGVLWCY LSSL QPPPPGFKRFSCLSLSSWDYRHLPP CPA NFC/IFSRDGVSPCWPG*SQTPDLR
5094	13145	A	596	1	685	EIKYHSLPRLECRGEISAH*NLCLP GSSDS PATAS*VAGITGMRHYAQLIFLFLV ET*F HHVGQGWSRTPDSNDPPASASQGA GDY RRD
5095	13146	A	5960	6459	7074	LEARAGSYRPDLPGSHYLLAFFFFFF RRS LTLFSQAGVK\WCDLGSSQPPSPGFK QF SCLSFLSSWDYRHAPPYRG*SFFFFF FVF LVETGVSPCWARL\VLNARPQVIHPP RAS QSA\GTTAVSHHAQPLCLFIYLFYF Y/CIF LRLSFALGPQARVQWHNLSSLQPPPP GF KQFSCLSLPSSWDYRWPPHPANFVLL RYLR
5096	13147	A	5961	1	361	VCYPDRDCGESLVAASYRQVPVHQCG W FHPLKPA\SHPDTVECVFRKTPKIPQ KHS GSPR\PPSPSYRGRFLFRFHPPQHG AQQP SPPPLGRKHRPSHTGSAALRACPPPG AA GLHSWGQL
5097	13148	B	5962	27	288	MRKVHVSTVTPNYAGGEPKFRRTAY TR QQVLELEKEFHYNRYLTRRRRVEIA HAL CLSERQIKIWFQNRMRKWKKDHKL PNT KIRSGX*
5098	13149	A	5963	1	825	MSSFLINSNYVDPKFPPEEYSQSDY LPS DHSPGYAGGQRRESSFQPEAGFGRRA A CTVQRYAACRDPGPPPPPPPPPPPP PGL SPRAPAPPAGALLPEPGRCEAVSSSP P PPCAQNPLHPSPSHSACEPVVYPW MR KVHVSTGRYSLSEVGSWGGVEEVEE EEK EEESNPNYAGGEPKRSRTAYTRQQV LEL EKEFHYNRYLTRRRRVEIAHALCL SERQI KIWFQNRMRKWKK\DHK\LPNTKIH SGG AAGSAGGPPGRPNGGPRAL
5099	13150	A	5964	656	1164	
5100	13151	A	5965	1	4033	MWRRKHPRTSGGTRGVLSGNRGVEY GS GRGHLGTFEGRWRKLPKMPEAVGTD PS TSRKMAELEEVTLDGKPLQALRVTD LK AALEQRGLAKSGQKSALVKRLKGAL ML ENLQKHSTPHAAFQPN SQIGEEMSQ NSFI KQYLEKQQELLRQRLEREAREAAE LEEA SAESEDEMIHPEGVASLLPPDFQSS LERP ELELSRHSRKSSEESSEKGDSDDEK PRK GERRSSRVQARA AKLSEGSQPAE EEEE D QETP
5101	13152	A	5966	3	5979	KSSSISEEKGDSDDEKPRKGERRSS RVQ ARA AKLSEGSQPAE EEEEDQETPS RNL RV RADRNLT EEEEEEEEEEEEDDEE EGD DEGQKSREAPILKEFKEEGEEIPRV KPEE MMDERPKTRSQEQEVLERGGFRTRS QEE ARKSHLARQQQEKEMKTTSPL EEE EREI KSSQGLKEKSKSPSPRLTEDRKKA SLV ALPEQTASEEETPPPLLTKEASSPP HPQL HSEEEIEPMEGPAPAVLIQLSPNTDA

5102	13153	A	5967	16	208	LLPYSTNPPASRLAVIAGVHHHTQLV FLVETGSHCVTQSGLKLPASSNPPTGLT MLGLQV
5103	13154	A	5968	1	932	MKFLLDILLPLLVCSLESFVKLFIPKR RKSVTGEIVLITGAGHGIGRLTAYEFAKL KSKLVLDINKHGLEETAACKCKGLGAK VHTFVVDSCNREDIYSSAKKVKAEIGDV SILVNNAGVVYTSDFATQDPQIEKTFE VNVLAHFWTTKAFLPAMTKNNHGHIVT VASAAGHVSVPFLAYCSSKFAAVGFHK TLTDELAALQITGVISLCLCPNFVNTGFI KNPSTSLGPTSSCSRVPKLVPEEVVNR MHGILTEQKMIFIPSSIAFLTTLERILPERF LAVLKRKISVKFEAVIGYKMKPH
5104	13155	A	5969	1	1202	IHTGENPYECHECGKAFSRKYQLISHQRT HAGEKPYECTDCGKAFGLKSQLIHQRT HTGEKPFECSECQKAFNTKSNLIVHQRT HTGEKPYSCNECGKAFTFKSQLIVHKGV HTGVKPYGCSQCAKTFSLKSQIVHQRS HTGVKPYGCSECGKAFRSKSYLIHMRT HTGEKPECRECGKSFSFNSQLIVHQRIH TGENPYECSECGKAFNRKDQLISHQRT AGEKPYGCSECGKAFSSKSYLIHMRT GEKPYECNECGKAFIWKSLIVHERTHA GVNPYKCSQCEKSFSGEITPSLLHQRMH TTEKPYECSECGKAFIRNSQLIVHQRT GEKPYGCNECGKTFQSILSAHQRTHT GEKPCCKTECGKAFCWKSQLIMHQRT VDDKH
5105	13156	A	597	3	198	GIPGSSFCGLCGDVPKPV*RADGSC*DG VAPRLLRPRGFRGGRCGPVLDLAGQRG AESGCRG
5106	13157	A	5970	153	571	LLVFYLPPTSLKGGRLQDMSLLCQLYS LYESIQEYKGACQAASSPNWYALENGF FDEEEYFPEQNSLHRRDRGPPRDLSP VAPSPAATGFWSRGSWEGDCWEAL PTGHAIVICCFCKKAPPLWTVLGHRG
5107	13158	B	5971	223	347	XNYIRVFGGGTKLTVLGQPKAAPSVTLF PPSSEELQANKATL*
5108	13159	A	5972	2	283	LHSRLDGAAILCPGHCHGSRVEVTYETH QCGLVGLKLLRGGREQSDRGGSGLT*D GQLGPPAEQRTTQAVIPCCAVIMSLILRL EPTDGQGG
5109	13160	A	5973	3	231	RRQAQIAAGRVLVVALFGGCGGLHSRL DGAAILCPGHCHGSRVEVTYETHQCGL VGLKLLRGGREQSDRGGSGLT
5110	13161	A	5974	2	385	APFMRDPAAVASVGF/PLLGRQAQVAAG RILVVALFGGFGGLHSHLDGAAICLPGH CHGSRVEVTYETHQCGLVGLKLLRGGW EQSDRGGSGLTDEGQVGASSEDISIISWP KHAVIVSLILRLEPGDE
5111	13162	A	5975	3	539	RRQAQITAGRVLVVALFGGCGGLHSRL DGAAILCPGHCHGSRVEVTYETHQCGLV GLKLLRGGREQSDRGGSGLT*DGQLGP SAEHLPLITTTIPLTVIVGLIPGLDPGDGQ GGRVPRAGAENRSGIPAGRSAS**MTNT GARPGFCWYHCTLLSPIFSPQVILAVFP GATDTEGG
5112	13163	A	5976	1	351	RGWREQSDRGGSGLTDEGQLGASSEH RTMQAVIPCCTVIISLILRLESTDGQGG*G ARLGARESVSDP*GPLIITIDEEFGGPSWD LLVPVYNINSDVGVASRTRDGDPLPGGP RR
5113	13164	B	5977	78	448	XQRTVISCTGSSSTIGAGYDVHWYQQLP GTAPKLLIYGNSNRPSGVPDRFSGSKSGT SASLAITGLQAEDEADYYCQSYDSSLG YWVFGGGTKLTVLGQPKAAPSVTLP SEELQANKATL*

5114	13165	A	978	1	393	RVLVVALF...GGLHSRLDGAACLPGH CHGSRVEVTYETHQCGLVGLKLLRGGR EQNDRGGSGLT*DGQLGPSAEHPSGTT TSSI*TAHISLGLSLEPINCQGGRGGLTSGI EIYNKPLRADYRPHKS
5115	13166	A	5979	3	389	LPGGPGTMVAFGGGLPTVQGRVQGALAP VLVGACLEGCGGLHSRLDGAACLPGH HGSRVEVTYETHQCGLVGLKLLRGGR QSDRGGSGLDLGRSAWSLRRIPHDKDH WCLLIDSNSQPRLLPGRH
5116	13167	B	598	188	246	MAWLPGSCARVAFFAGAAAR*
5117	13168	A	5980	1	908	AGHRGRRAFRGKGQQRGSRLGAGFSG WDKRWVVKGVSVRAEIEGVTGVPARD NSIQAGGREVGGYALRRRGRNERAEG VFSDQTSPIRASFTRRHPGRLCASPSGPLS HWVPGFPHPTLRTQGRPPIMCEIRKEERE QDFSLTMRIFIEKGWMTWDGGRDPSPG NLQLQAPVGGVRVGGKAFRCRGHCLLH GAPFMRDPAVASVGLPLLGRQAQVAA GRILVVALFGGFGGLQSHLDRAAICLP SH CTGPRVKIHFKNHVGVLGLKLLRGGW EQSDRGGSGLTLEDGQLGASSEHSTQ
5118	13169	C	5981	60	392	
5119	13170	C	5982	176	385	
5120	13171	A	5983	1876	2540	FLQLGSWLGRGSCQVSRGPGQPRSDNLL VEPKDLKGNLTHFTTLGGFHLLYMMIWI HPPINLCSGSNFFFLFFFFSFLRLGLALL PQAGVEWRDLGLLQPLPRLEQSCPS GSSWDRRFMPWPANFCM/FL*RWGLT VLPRLVSNWAQ/CDPPVSASQAGITIV SHHVQLEGSTSFTFCKHICIFTPPFPSL ISHFYIDLLFYNKTLTPKKKKK
5121	13172	A	5984	1	393	
5122	13173	A	5985	1	1427	MRERFRNLDEEVEKYRAVYNKLYEHT FLKSEFEHQKEEYARILDEGKIKYESEIA RLEEDKEELRNQVLNVDLTKDSKRVEQL AREKVYLCQKLKGLEAEVAELKAEN SEAQVENAQRIQVRQLAEMQATVRSLE AEKQSANLRAERLEK/DSLQSSSEQNTFL INKLHKAEREINTLSSKVKELKHSNKLEI TDIKLETARAKSELDRENRNKHSELDYL HLDNEILKAAVEHHKVLLVKKDRELIRK VQAAKEEGYQKLVLQDEKLELENRLA DLEKMKVEHDVWRQSEKDQYEEKLRAS QMAEEITRKELQSVRLKLQQIVTIENAE KEKNNSDLKQQISSLQIQVTSLAQSEND LLNSNQMLKEMVERLKQECRNFRSQAE KAQLEAEKTLEEKQIQWLEEKHKLHERI TDREEKYNQAKEKLQRAAIAQKKRKS L HENKLRLEKVEVLEAKKEELETENQ VLK

5123	13174	A	86	2	1831	NYKTLIIICALWTVLLWNKCSSDKAI QFPRSSSGFRVDGFEKRAAASESNMY NHVAKQQSEEAFFQEQKAPPVVGGFN SNVGSKVLGLKYEEIDCLINDEHTIKGR EGNEVFLPFTWVEKYFDVYGKVQYD YDRFEFSHSYSKVYAQRAPYHPDGVFM SFEGYNVEVRDRVKCISGVEGVPLSTQW GPQGYFYPIQIAQYGLSHYSKNLTEKPPH IEVYETAEDRDKNKPNWDWTVPKGCFMA NVADKSRFTNVKQFIAPETSEGVSLQLG NTKDFIISFDLKF LTNGSVSVVLETTEKN QLFTIHYVSNQAQIAFKERDIYYGIGPRTS WSTVTRDLVTDLRKGVGLSNTKAVKPT KIMPKKVRLIAKGKGLDNITISTTAHM AAFFAASDWLVRNQDEKGGWPIMVTRK LGEGFKSLEPGWYSAMAQQAISTLVR AYLLTKDHIFLNSALRATAPYKFLSEQH GVKAVFMNKHWDWYEEYPTTSSFVLNG FMYSLIGLYDLKETAGEKLGKEARSLYE RGMESLKAMLPLYDTGSRTIYDLRHF LGIAPNLRWDYHTTHINQLQLSTIDES PIFKEFVKRWKSYLKGSRAKH
5124	13175	A	5987	34	332	LLRQGLALLPRLECSGTISAYCNLCPLGS NHPPVSVSQVAGTTGVHHAQLIFVFW VETGFCHVAQYGLEFLGSSNPALTSPSA GITGVSHCIWAQVF
5125	13176	A	5988	3	395	PAGGPAAGRAAARAGAMAKLLSCVLGP RLYKIYRERDSEAPASVPETPTAVTAPH SSS/WGYLSLSKVVPFSHYAGTLLLLLAG VACLRSIGRWTPNPQYRQFITILEATHRNQ SSENKRQLANYNDFRSW
5126	13177	A	5989	3	414	
5127	13178	A	599	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGT AQLSELHCDKLHVDPENFKLLGNVLT LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
5128	13179	A	5990	3	784	LIALRTCTESPGTTHASADAWAKLLSC VLCPRLYKIYRERDSEGAPISETETPTAD TAPHSSSWDTYYQPRALEKHADSILALA SIFWPISYYSCFAFFYLKGYLSLSKV VPFSHYAGTLLLLLAGVACLRIGIGRW NPQYRQFITILEATHREPSLQKTKRQLAN YNDFRSWPVDFHWEEPSSRKESRGGPS RRGVALLRPEPLHRGTADTLNRVKKL CQITSYLVAHTLWRRMLYPGSVYLLQK ALMPVL
5129	13180	A	5991	461	660	
5130	13181	A	5992	1	1774	MSSEEVSWISWFCGLRGNEFFCEVDED YIQDKFNLTGLNEQVPHYRQALDMILDL EPGIGRWTPNPQYRQFITILEATHRNQSS NKRQLVYYFFDFRSWPVDFHWEEPSSR KESRGGPSRRGVALLRPEPLHRGTADTL LNRVKKLPCQITSYLVAHTLGRRMLYPG SVYLLQKALMPVLVQQAARLVEKCN RRAKLALACDGNEIDTMFVDRRGTAEPQ GQKLVICCEGNAGFYEGCVSTPLEAGY SVLGWNHPGFAGSTGVFPQNEANAMD VVDQFAIHRLFFHPQDIHYALAIGGFTAT WAAMSYPDVSAMILDASFDDLVLALK VMPDSWRGLVTRTVRQHLNLNNAEQLC RYQGPVLLIRKTQDGNLTPTVPKDICS RANCLLVKALQHRYPGVMAEEGLLVA RQWLEASSQLEEASIYSRWEVEEDWCL SVLRASYQAEHGADFPWSVGEDMSAID GRRQAGPLFPGLGKASCHNFGGPTHCT PLPSPQNFPRCPWHPLGTQLGLIMEEWG ERRHEERPFLFVILLCFMFAVYKFCGK

						GGPFPLLTTRFPSFMWLYLTFSNIH PALHEMG
5131	13182	A	5993	3	180	
5132	13183	A	5994	1	1015	MIAPLGLGVLARDQYRQAALADWDLKL DGGRRQSTGAVSLKEIIGLEGVELGADGK TVSYTQFLPTNAFGARRNTIDSTSSFSQ FRNLSHRSLSIGRASGTQGS�DTGSDLDG FMDYDPNLLDDPQWPCGKHKRVLIFFSY MLCTQLPCSQAFKCSTVHSSDLSLHERN EHPCKKHNCLLQEGHSPLQAPGFRRALV VAPMQVFPLLMALGVTTVIDYVKPSDL KKDMNKFFKEKFPPIKLTLNKIRTLKRE\ MRKLAQEDCALEEPTVPMAFVYFEKLA LKGLNKNQNRKLCAGACVLVSSQYKFG SDLKKHEVKHLIDKLEEKFRLNRARTGF AF
5133	13184	A	5995	48	327	EELEALRR\QRLAELQAKHGDPGDA\AQ QEAHREAEMRNSILAQVLDQSARARIV SEQGLIEILKKVSQTEKTTTVKFNRRKV MDSDEDDDY
5134	13185	A	5996	52	281	VSKLKHLLKPEKTKAVENYLIQMARYG QLSEKVSLSLEELYCYLLYQNMASKGQ LHLHWITEFLTLRRNCWRE
5135	13186	A	5997	1	280	GNPLFFLELHWNPSLRIQACDRIYRVGQ QKIDVSIPIRFVCGGTVEESILHFQEKIDL AKQFLSGSGESVTKLTLSDLRVLIGIYPP VDRVSE
5136	13187	A	5998	36	512	LFVLLQVNVSGNELCLMTSHLESTRGHA AERMNQLKMVLKKMQEAPESATVIFAG DTNLRDREVTRCGGLPNNIVDVWEFLG KPKHCQYTWDQTTELLILGITAACKLR FDRIFR\AAAEEGHIIPRSLDLLGLEKLD CGRFSDHWGLLCNLDIIL
5137	13188	C	5999	205	519	MGKEGVHGGLINKKCYEMAFPLQAFPV LTSSVSPSPPLPTALHPFXXHTHTNHFIF WAITPYPLLLPKPHGLGARAGWTDTSFY PYPSRVWLENFCFLGFFSE*
5138	13189	A	6	144	398	
5139	13190	A	60	713	811	IPGRPWR\A*PVTLR\QTQATCGG*MV RASL
5140	13191	A	600	3	496	HSLFGTSEVINKLRSPDAMGHFTEEDKG TITSLWGK\VNVEDAGGETLGRLLVVP WTQRRFFDSFGNLSSASAIMGNPKVKAH G\KKVLTSLGDAIKHLG*SQGAPFAQA*S ELH\CDKAALLDPEELSSFLGEMLLGDPF LGNPFGQKNFTPEGCKAFLGQKDG

5141	13192	A	6000	3	939	FLKLHLQSSVLLASGGGREGWAGSGV RGLLHSERSRGPDSACPELSASPRPASR GSSSPVRGRQQRPRAAPVAAPWPCWN AYIDNLMADGTCTVTGAIVRYQDSEPPV WAAVPGKTFVNNTPA*GGLSLVGKDR SSFLR*MGLTLWGGQKICSVIRGLTCLQD GEF/SAMDLRYQEPPGGAPTFCQSLFTKT DKDG*VLADGAKEGVHGGTLNKKCYE MASHLSGFPSTDHRLSLPLHRSPTAFAPL SSPYTHHPFLFFGPLPHTPYCCQNHMGL GGQGLMGQTPSPTHIPSRVWYGKLLFFG VFFFSE
5142	13193	A	6001	172	407	
5143	13194	A	6002	1	185	ESSCLSLPSSWDHRHGRPWLADFSVE/C YRNSLTMLPRLGLNSWPQAILPPWPPKV LGLQA
5144	13195	A	6003	1	618	
5145	13196	A	6004	1	478	HPVRFFVHRGPH/VDFSLEVVSQWYELV VFTASMEIYGSAVADKLDNSRSILKRRY YRQHCTLELGSYIKDLSVHSDLSSIVIL DNSPGAYRSHPDNAIPIKSWFSDPSDTA LLNLLPMLDALRFTADVRSVLSRNLHQ HRPLTGTGTGGTLGEPNQCL
5146	13197	A	6005	2	833	WNSAELGRGGPGAGGAGVIGMMRTOC LLGLRTFVAFAAKLWSFFIYLLRRQIRTV IQYQTVRYDILPLSPVSRNRLAQVKRIL VLDLDETLIHSHDGVLRTVRPGTPPDF ILKVVIDKHPVRFFVHKRPHVDFLEVV SQWYELVVFTASMEIYGSAVGRNLWD NSRSIL*GGRYRQPALELGSIKGPL CWFHSDLSISIVILDNSPGAYRSHPGYGG RDNAIPIKSWVSVTPSDTALLNLLPMLD ALRFTADVRSVLSRNLHQHRLW
5147	13198	A	6006	2	258	EAESRSVPRLCSGPILAGCMLHLPGSC HFPASASQVAGTTTHARHHTQLIFAFLVE NGLC*PGWSRSPDLVIRLPWPPKVLGLQ A
5148	13199	A	6007	60	429	IRGOYMWGPVSSSLFCSMGYLVFGFFSFI FFFCDEVLLLSTRLECNGTISGHCNLCPL GSSHSPVSASRVAGTTGARNKARLIFYF FLVEMGFHHISQDGLDLL/NLVIRPPWPP KVLGLQA
5149	13200	A	6008	1	1047	SCGWTFSTMSKLLRHRRKHDDRRFTC PVEGCGKSFTRAEHLKGHSITHLCTKPFE CPVERCCARVSARSSLYHKKHVQDVG APKSRCPVSTCNRLFTSKHSMKAHMVR QHSRRQDLLPQLEAPSSLTPSSELSSPGQ RELTNMDLAALFSDTPANASGSAGGSDE ALNSGILTIDVTSVSSSLGGNLPANNSSL GPMEPLVLVAHSDIPPSLADSPVLGTAA TVLQQGSFSVDDVQTVSAGALGCLVAL PMKNLSDDPLALTNSNLAHHITPTSSS TPRENASVPELLAPIKVEPDSPSRPGAVG QQEGSHGLPQSTLPSPAEQHGAAQDTLS AGTGNFYLV
5150	13201	A	6009	66	423	MEVACRQSTSWQPMDLASSSDFRPRMQ NPTTNRHSQANSCLQGDSPRRMSASKR YFEKTAICRPSSFTKHSRESSGSPGVRS CTGTRF*NVTKQPYFTSSKHKRTGKVKV RISVV
5151	13202	A	601	24	452	APSPDAMG/HSLWGVNVEDAGGETLG RLLVVYPWTQRFDSFNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGT AQLSELHCDKLHVDPENFKLLGNVLVT LAIHFGKEFTPEVQASWQKMTGVASA LSSRYH

5152	13203	A	6010	44	283	FSCLILHDAFCLILHDAFPCSLCSVTGSL VLSRVPLRGTHQKSAIATSTKIALSNM/KI LKHHTDAYFKKQQLFFDVSKK
5153	13204	C	6011	107	118	MAV*
5154	13205	A	6012	197	683	SLEVPLGFLLYLSFILLYSCFPLSNRVLLC HRDPFLSFLDLFLLPAFSPDYVQFLFL*CA PQFSIRH*TL*MLHCKCLDFFFFFFFETR FHSPSLRLECSGMISAYCSPTSWSVTQVRG TTGTCHHAWLVFIFSVETGFHHVAQPD QLLPAPRPPKVLRLQV
5155	13206	A	6013	1	415	LWREGPKWN/AARLNESTTFVSVSRPTIA CGMVGTIVRFYIKSPHLFKYAADPRDK HWLAEQHHMRATGGKMAVLLIEEDIP GPCGPMITEDALDLKLEGIEIPLSLPSW MVEKMRKYMETLRTENEHRAVEAPQ T
5156	13207	A	6014	1	1256	
5157	13208	A	6015	2	1594	GRPARGAPQRGQTPEAGADKRATAGLC GGGGGRRRRHRASGRRAGRGEPAGLKS QGQRAVPKRAVARGGRQVYSAIALLP AGSEIADDLSILYSNRAACYLKEGNCSG CIQDCNRALELHPFSMKPLRRAMAYET LEQYGKAYVDYKTVLQIDCGLQLANDS VNRLSRILMELDGPWNREKLSLIPAVPAS VPLQAWHPAKEMISKQAGDSSSHRQQGI TDEKTFKALKEEGNQCVDKNYKDALS KYSECLKINNKECAIYTNRALCYLKLCQ FEEAKQDCDQALQADGNVKA FYRRAL AHKGLKNYQKSLIDLNKVILLDPSIIEAK MELEEVTRLLNLKDKTAPFNKEKERRKI EIQEVNEGKEEPGRPAGEVSTGCLASEK GGKSSRSPEDPEKLPIAKPNNA YEFQII NALSTRKDKEACAHLLAITAPKDLPMFL SNKLEGDTFLLLIQSLKNNLIEKDPSLVY QHLLYLSKAERFKMMLTLISKGQKELIE QLFEDLSDTPNNHFTLEDIQALKRQYEL
5158	13209	A	6016	1	449	MAEGEITTFALTTEKFNLPNGYKPKLL YCSNGGHFLRILPDGTVDGTRDRSDQHI QLQLSAESVGEVYIKSTETGQYLAMDT DGLLYGSQTPNEECLFLERLEENHYNTY ISKKHAENWFVGLKGPRTHYGQKAIL FLPLPVSSD
5159	13210	A	6017	1	153	
5160	13211	A	6018	1	528	
5161	13212	A	6019	223	513	QRGFLPEDPSGWHSGWDKGQERPAHRH QMRNVCSWKGWRRITITPIYPRSMQRR GLLASRRMGAANAVLGLTMARKQSC*A MAEGEITTFALTTEKFNLPNGYKPKLL YCSNGGHFLRILPDGTVDGTRDRSDQH QTPNEECLFLERLEENHYNTYISKKHAE KNWFVGLKKNKNGSCKRGPRTHYGQKAIL FLPLPVSYNSRDLFWEG
5162	13213	A	602	38	538	APSPDAMGHFTEEDKATITSLWGKVVN EDAGGETLGRLLVVYPWTQRFDFSGN LSSASAIMGNPKVKAHGKVLTS LGDA IKHLDDLKGTFAQADVNTCDKLHVD PENFKLLGNVLVTVLGNPIFGKEFTPEG CKASWAERWVTWSWPVPCSSRIPLKPL CP
5163	13214	A	6020	1	812	MAEGEITTFALTTEKFNLPNGYKPKLL YCSNGGHFLRILPDGTVDGTRDRSDQHS GLNYSWTMHQRLQALRTNDHFAGAHA VPSDAQVMGMDAGVYTSSKTIAAFVIVL LYHSQVHLSVSLIMQKPQVQGPWLALS QQLQEDVGLENWNEVTLESWTPSQLHK PLSLVQLQLSAESVGEVYIKSTETGQYL AMDTDGLLYGSQTPNEECLFLGLEE NHYNTYISKKHAEKNWFVGLKKNKNGSC

						KRGPRTHYCAILFLPLPVSSD
5164	13215	A	6021	1	1471	MESMFSSPAEALQRETGVPGLLTLPD LDGVYELERVAGFVRDLGCERVALQFP DQLLGDAVAVAAARLEETGSKMFLGDT AYGCCVDVLGAEQAGAQAALHFGPAC LSPPARPLPVAFVLSSTFCGLGTLCDLW GPKPRPQSACGAA\GEPACAHAEALAT LLRPRYDLLVSSPAFPQPVGSLSPPEMP LERFGRRFPLAPGRRLEEGAFYVGGSK ASPDPLDPLSRLLLGWAPGQPFSSCCP DTGKTQDEGARAGGLRARRRYLVERAR DARVVGLLAGTLGVAQHREALAHLRNL TQAAGKRSYVLALGRPTAKLANFPEVD VFVLLACPLGALAPQLSGRLFQIPILAPCE LEAACNPAWPPGLAPHLTHYADLLPGS PFHVALPPPESELWETPDVSLITGDLRPPP AWKSSNDHGSLALTPRQLELAESSPAA SFLSSRSWQGLEPRLGQTPVTEAVSGRR GIAIAYEDEGSG
5165	13216	A	6022	1	343	PTRPPTRPRTHGQECPLDPVDFLLFRTR AGDPLRRVSSSFNKNLIFFSIKPPPPCL AFHPRDPPGSKRPLFWDPFKGPPILAPI LSLTQIFFRWSCFFPKSRIAQGWALS
5166	13217	A	6023	3	919	
5167	13218	A	6024	3	275	GLRLGKIGRD\CLIGYGASMLLERLMIS SDAFEVDVCGQCGLGYSGWCHYCKSS CHVSSLNIPYACKLLFQELQSMNIPLK LSKYNE
5168	13219	A	6025	455	679	
5169	13220	A	6026	1	2064	MTASIRRYHTCATDGEPSVVLVGGDGD LTLVAALGLDLGLPFMLLPPLMEWMR VAITYAEHRRSLTVDSGDIRQAARLLP/ GPEHCFSSFR\RLDARAATEKFNQDLGFR MLNCGRTDLINQAEALGPDGVNTMDD QGMTPLMYACAAGDEAMVQMLIDAGA NLDIQVPSNSPRHPSIHPDSRHWTSLTFA VLHGHSVVQLLLDAGAHVEGSAVNGG EDSYAETPLQLASAAGNYELVSLLSRG ADPLLSMLEAHGMGSSLHEDMNCFSHS AAHGHGIGWGLVTLGPLACLEEDHETP SPRPVQSSPSGQEGTGGQLRNVLKLLT QPQAKADVLSLEEILAEGVESDASSQ GSGSEGPVRLSRTRTKALQEAMYYSAEH GYVDITMELRALGVPWKLHIWIESLRTS FSQSRYSVVQSLLRDFSSIREEEYNEELV TEGLQLMFDILKTSKNDSVIQQLATIFTH CYGSSPIPSIPEIRKTLPARLDPHFLNNKE MSDVTFLVEGKLFYAHKVLLVTASNRF KTLMTNKSEQDGDSSKTIEISDMKYHIFQ MMMQYLYYGGTESMEIPTTDILELLSAA SLFQLDALQRHCEILCSQTLSESAVNT YKYAKIHNAPELALFCEGFFLKHMKALL EQMPSGSSSTAAAKCRAWIHCRCTRT PWQSACTLSTSPPGSAA
5170	13221	A	6027	2	144	LFYEMESCSIAQAGVQWLSLGLLQAPPV GSCHSPASASCELMFFKI
5171	13222	A	6028	163	465	
5172	13223	A	6029	1	1614	
5173	13224	C	603	83	349	
5174	13225	A	6030	163	1917	

5175	13226	A	6031	133	424	PFLCDLFHLVPSDSFLMVIDFVNGTFM ISFINRILLGQNRDGI VFSTDDYFHHQDG YRYNVNQLGDAHDWNQNRGLFWAKCP RIEYLARSQKT
5176	13227	A	6032	3	270	FKMESGSVAKLECRGTISAHCNLRPPGS SDPPASASQIAATTGVHHNRLIPAFLE TGFCFVDQAGLELLT/LVIHPPRPKVLG LQA
5177	13228	A	6033	407	720	RHNSSNFFFFFFFETESRSIAQACMQWC YLSSLQSLPPGFKRFSCSLPSSWDDRC PPCLANFVFLVETGFCHVGQAGLELLIS GDPPASASQSTGITGMI
5178	13229	A	6034	1	135	KEAPGLKKENN\CFVCAICQINMEGKTL SKKDRPICKSHAFFHV
5179	13230	C	6035	96	410	
5180	13231	C	6036	108	422	
5181	13232	A	6037	2	195	CLPRFMPILPASTSQVAGNTGAHHHARLI FVFLVEVGFFHHVGQAGLL/ISLPQMIHPP RPPKVLGL
5182	13233	A	6038	251	377	LGLAQITLDNPLLGGEGLECAPTGPLEPP LAYTVNLILKSKARRTEPQKQYFSSHAK NGG*REGVAA*APTGLEPPLAYTVNLIL KSKA
5183	13234	A	6039	175	393	ARPTFRLYLSLPVSQAGQQREAER/HPRL VPTGPTHREPSVRYDNLSRHIVDLSVAP RGEESRRCCQLVHL
5184	13235	A	604	295	448	NQTCVCWHACAYVSSNRVPWSIGSAIRS VCCYPLPFPALCAPCL*ISTALD
5185	13236	A	6040	1	537	
5186	13237	A	6041	1	1555	MPYSLNLAIRDTFVNASRTLYSSSPRVLS NNSDANLELINTWVAKNTNNKISRLLDS LPSDTRLVLLNAIYLSAKWKTTDFPKKT RMEPFHFKNSVIKVPMMNSKKYPVAHFI DQTLKAKLSRGDSLKEPTSIAESSRHPSY RSEPSLEPESFRSPTFGKSFHFDPLSSGSR SSSLKSAQGTGFELGQLQSIRSEGTTS YKSLANQTRNGSLSYDSLTPSDSPDFES VQAGPEPDPLGYTSPFLSARLAQQREA ERHPRLVPTGPTHREPSVRYDNLSRHIV ASLQEREKLLRQSPPLPGREEEPGLGDSG IQSTPGSGHAPRTSSSSDDSKRSPLGKTP LGRPAVPRFGKPDGLRGRGVGFPEPGPT APYLGRMSYSSQIAQPGVSETEEVDLRP LLTPKDEVQLKTTYSKSNGQPKSLGSAS PGPGQPPLSSPTRGGVKKVSGVGGTTYEI SEFDHHCWPVNNCIGRRNYRYFFLFLLS LTAHIMGVFGFGLLYVLYHIEELSGVRT AV
5187	13238	A	6042	1	627	TRREAERHPRLVPTGPTHREPSVRYDN LSRHIVASLQEREKLLRQSPPLPGREEEP GLGDSGIQSTPGSGHAPRTSSSSDDSKRS PLGKTPGRPAVPRFGKPDGLRGRGVG SPEPGPTAPYLGRMSYSSQKAQPGVSE TEEVALQPLLTPKDEVQLKTTYSKSNGQ PKSLGSASPGPGQPPLSSPTRGGVKKVSG VGGTTYEISV

5188	13239	A	6043	3	2265	PTWLERGGG...AARPQTPOPTAPESRGP SGASALRCRGPTARSLPAASMLGAPDES SVRVAVRIRPQLAKEKIEGCHICTSVTPG EPQVFLGKDKAFTFDYVFDIDSQQEQIYI QCIEKLEIEGCFEGYNATVFAYGQTGAGK TYTMGTGFDVNIVEEELGIISRAVKHLF K\SIEEKKHIAIKNGLPAPDFKVNQFLEL YNEEVLDLFDTRDIDAKSKSNIRIHED STGGNLYCGRLPTRTVNTESEMMQCLK LGALSRTTASTQMNVSQSSRSHAFTIHVC QTRVCPQIDADNATDNKIISESAQMNEFE TLTAKFHFVDLAGSERLKRGTATGERAK EGISINCGLLALGNVISALGDKSKRATHV PYRDSKLTRLLQDSLGGNSQTIMIACVSP SDRDFMETLNTLKYANRARNIKNKVMV NQAELVSKSMHFVVKSHDFRWSSWST KPGKRIIDEEGVESINDMFHENAMLQTE NNNLRVRIKAMQETVDALRSRITQLVSD QANHVLARAGEGNEEISNMIHSYIKEIED LRAKLESEAVNENLRK\NLTRATARAP YFSGSSTFSPTILSSDKETIEIDLAKK\DL KLKRKEKRKKKSVAGKEDNTDQDEKK EEKGVSERENNELEVEESQEVSDHEDEE EEEEEEEDDIDGESSDESSESDEKANY QADLANITCEIAIKRKLIDELNSQKRLQ TLKKQYEEKLMMMLQHKIRDQTQLERDQV LQNLCSVESYSEEKKKK
5189	13240	A	6044	2	323	EDQGLYSIRMEGARGCLAKSLAL*GAGR GFYSGERTWTLSPSGNCAPYQRGGW WSHA*AHSNLNGVWHHGGHYRSRYQD GVYWAEFRGGAYSLRKAAMLIRPLKL
5190	13241	A	6045	3	902	PFFCSTISYRLCPEGAAGQKKVLPPLV PVVPVRLVGSTRDTSRMRDPAPEPQRDQ TQRQQEPMASPMPAGHPADPTKPVGPW QDCAEARQAGHEQSGVYELRVGRHVVS VWCEQQLEGGGWTVIQRQDGSVNVFT SWQHYKAGFGRPDGEYWL\GLEPEHHL TSRGDHELLVLKEDWGGRGARAHYDG FSLEPESDHYRLRLGQYHGDAGDSLW HNDKPFSTVDRDRDSYSG\NCALYQRRG WWYHA\CAHSNLNGVWHHGGHYRSRY QDGVYWAEFRGGAYSLRKAAMLIWPLK L
5191	13242	A	6046	3	218	KAVSLSVTQAGVQWLISLQSPPPRFNRF SCLSLPSSWDYRQVPPRANFCIFSRDRV SPCWPGWSPTPNLK
5192	13243	A	6047	1	297	MVVSLYFPTHPSFPVLLCLVLCPRIL RDCNPPRLPFVDFCLGLVNGMPWHSF GGKKREDNVFLHCSHSDLGTVLLAGTA SLQDFSFFQKSPPP
5193	13244	A	6048	1	8157	
5194	13245	A	6049	1126	1355	
5195	13246	A	605	43	208	ARTLIEVIGLSHHNQKAHAMLLNAF*SSI RASP*RSKY*SSLWNQTSRFQIPAPT

5196	13247	A	6050	1	1627	MGSRCNPNPAAHSDTTGKDSFGNIRGA ETGQGASACSVTSARVTCGAGSEPHSHR NPGISAQVGLAPSYGAARGRRRPLALQQ SPQERRHVGNSTRGLLPASLPGTASSQ SASATASAALPLKVTGPLARNPTPPWTA AAALATRGQRPEKGLFPGAPFSLGKRK RGRGRTWERRRRVSIETSTCFRPGCERL GAAAGANLSQLASSQRPLRERWVLYTII MAAAGAPDGMEEPMDTEAETVATEAP ARPVNCLEAEATAGAGAGTVAEDSGTA RGS LQPA/PAPAQAPGDPVSQASVSNGE DSGGSADSELVDLRIIWNKTKHDVKFPL DSTGSELKQKIHSITGLPPAMQKVMYKG LVPEDKTLREIKVTSGAKIMVVGSTINDV LAVNTPKDAQQDAKAEENKKEPLCRQ KQHRKVLDKGKPEDVMPSVKGAQERLP TVPLSGMYNKSGGKVRLTFKLEQDQLW IGTKERTEKLPMSIKNVVSDPNEGHED YHNDGRFQLAPTEAISYYWVYVWPTQY VDAIK/DTVLGKWQYF
5197	13248	C	6051	47	298	
5198	13249	B	6052	64	362	XCVWHRRKVAVNLA KLKLF RHYYVMV ICYVYFTRIIAILLQVAVPFQWQWLYQPT GNNPYLQLPQEDEEDVQMEQVMTDSGF REGLSKVNKTASGRELL*
5199	13250	A	6053	1	342	
5200	13251	A	6054	1	485	
5201	13252	A	6055	696	3195	SGRRTPMASCRRRCPFSSSTWSCPPAS WPLASSGCPSSAGTRTASFJHWMAL AFTKSISLLFHSVRALDRGAAGAPITSFES HPPSSLFNFLTTHLMVTVRPNPPPPSA SHPSVRLTVRLSIHPQINYFINSQGHPIE GLAVMYIAHLLKGALLFITIALIGSGWA FIKYVLSDKEKKVFGIVIPMQVLANVAYI IIESREEGASDYVLWKEILFLVDLICCGAI LFPVVWSIRHLHGCVWHRRRMVAVNLA KLELFRHYVMVGARLTHSGFGGITGL LHAHPSPSAAAPSRGPHPGSPARILQSSP MPARAPTVLAPRLAPLQVICYVYFTRII AILLQVAVPFQWQWLYQLLVEGSTLAFF VLTGYKFQPTGNNPYLQLPQEDEEDVQ MEQVEAHTLKLKLVKDIKSTVSNVFSEMK ENMDKELKQIMRMİYERRICVADPFVET VMQDFFIDRLPYSVVRNEQVEIRAVLY NYRQNQELKVRVELLHNPFCSLATTKR RHQQTVTIPPKSSLSVPYVIVPLRPACRK WKSRLSTIISVTVSGKGVQKEDIPPAD LSDQVPDTESETRILLQGTPVAQMTEDA VDAERLKHLIVTPSGCGEQNMIGMTPTV IAVHYLDETEQWEKFGLEKRQGALELIK KGYTQQLAFRQPSSAFAAFVKRAPSTWL TAYVVKVFLAVNLIIDSQVLCGAVKW LILEKQKPDGVFQEDAPVIHQEMIGGLR NNNEKDMALTAFVLISLQEAKDICEEQV NIHNRYAATRQLMVAKISGKFSKMDKS KTAGLADCHSVLDVSNKGVLRDVASTS SGIVDWRGSIQT
5202	13253	A	6056	1	516	LRQPTRPVFGIVIPMQVLANVAYIIIESRE EGASDYVLWKEILFLVDLICCGAILFPLV WSIRHLKDASGTDGKVPVNLPLKLF RH YYVVPAPTPCAPLQVICYVYFTRIIANPL QVAVPFQWQWLYQLLVEGSTLAFFVLT GYKFQPTGNNPYLAVAPGGGGCSRWS K

5203	13254	A	6057	3	528	LSCRVQVSVPRPALPVSAVPGTPGT LTPALLHP/WLADCDVSDSSCSLAATLL ANHSLRELDLSNNCLGDAGILQLVESVR QPGCLLEQLVYVQRAGRVPRLPREE GGGGGHHWAHASLLACVQVPRQFTGLR RWRTGLQGPGETSTSLRGHLLRLFLLL AAALDDRP
5204	13255	A	6058	1	334	
5205	13256	A	6059	225	843	WTRCWSRLRASGSSCEGRRAAPPRPCA RYEGGYQRSCGESACGGRRVLGSSLRQ HQGSCRNTRAGMFCGRQYIPHPAASPR RPLGRSRNTQMGTPLSRVLLRSCRKKID/ SLKQKVTHLRGLQIPHEPELMRKEISRLN KTVGRENK*LSRSEAGAGGLQEARDA LERVQMLEQQVSVPRAPDGTQMSAGR WWPKSWDRLG
5206	13257	C	606	892	1269	
5207	13258	A	6060	300	957	GSTKVHAETHALGCSVADSTSRTHQQL HRGAHWGEVGTWRWHTSVQSVIEKLQ EENRLLKQKVTHVEDLNAKWORYNASR DEYVRGLHAQLRGLQIPHEPELMRKEIS RLNRQLEEKINDCAEVKQELAASRTARD AALERVQMLEQQILAYKDDFMSEADR ERAQSRIQELEEKVASLLHQVSWRQDSR EPDAGRIHAGSKTAKYLAADALELMVP G
5208	13259	A	6061	2	271	FFETESRSVAIRLECSGAISAYCTLCPLGS SDSIASASRWAGITGEHHHARLILVFLVE MGFHHVGQAGLGLLDLVHPPRPPKVLG LQA
5209	13260	A	6062	3	376	DYSLGLPVVTTGCWGHMSNAPLRWALN PSYWGKNQLLCPESLALCCGLCKPRFL EVTSVRSADLYLSSPCLVRRCPFRGKE KPAVGMRMPDNKGWRRALSSSLSPRVP VAPVAASVLTVMN
5210	13261	A	6063	2	70	
5211	13262	A	6064	3	258	ADPPSPSFCFCFFETESCSVTIRLECSG AILAHCNLC/LPTCHHAWVIFVLVETEF HHVGEDGLNLLNFMYYLPRPPKVLGLQ A
5212	13263	A	6065	1	408	
5213	13264	A	6066	3	25	
5214	13265	A	6067	3	503	
5215	13266	A	6068	1	1740	MAAVVAATRWQQLLVLSAAGMGASG APQPPNILLMLDDMGWGDGVYGEPS RETPNLDMAAEGLLFPNFYSANPLCSP SRAALLTGRLPIRNGFYTTNAHARNAYT PQEVGGIPDSEQLPELLKKAGYVSKIV GKWHLGHRPQFHLKHGFDEWFGSPNC HFGPYDNKARPNIPIYRDWEMVGRYYE EFPINLKTGEANLTQIYLQEALDFIKRQA RHHPFFLYWAVDATHAPVYASKPFLGTS QGRYGDVREIDDSIGKILELLQDLHV ADNTFVFFTSNGAALISAPEQGGSGNGPF LCGKQTFEGGMREPALAWWPGHVTA GQVSHQLGSIMDLFTTSLALAGLTPPSDR AIDGLNLLPTLLQRLMDRPIFYRGDTL MAATLAGQHKAHFWTWNSWENFRQG IDFCPGQNVSGVTTHNLEDHTKLPLIFHL GWDPGERFPLSFASAEYQEALSRTSVV QQHQEALVPAQQLNVCNWAVMNWAP PGCEKLGKCLATPPESIPKKCLWVPLAPA QTQARPRISSWPCKCLEEGWLWPRSSPN PAPSQTDSTCRRRGTCITISNLPRT
5216	13267	A	6069	3	2945	
5217	13268	A	607	187	363	MPLRLPIQDVY*IGGIGTALVGRVESGAV NYGLVGSSVH*AVQSVALDFRFSWML YSQ

5218	13269	A	6070	2	3078	
5219	13270	A	6071	3	3204	AGRGRLWGGTASREPQKSAGKFPRWGA FRASRTALGPGARSQERGPGGGNAPRPP PPRLPPAAVLA AAAVAAAAALPRGAAL KGGTPPPGALAARAPREPVAAMPFRAPP APGPRPPRAAAATDTAAGAGGAGGAG GAGGPGFRPLAPRPWRWLLLLALPAACS APPPRPVYTNHWAVQVLGGPAEADRVA AAHGYLNLGQIGNLEDYYHFYHSKTFK RSTLSSRGPHFTLRMDPQVKWLQQQEV KRRVKRQV
5220	13271	A	6072	3	3002	
5221	13272	A	6073	1	1181	MEVSRAGLSTVLEAVLCPADLTAASLDA ASPMPSSSHLPVLGYPVGKSGARPGSTQ EVVLTAAAVTQEVVLTAAAVTQEVVLT AAAVTQEVVLTAAAVTQEVVLTAAAVT QEVVLTAAAVTQEVVLTAAAVTQEVVLT TAAAVTQEVVLTAAAVTQEVVLT TAGA ENKPVSAPHSSSTCARTGSPGRPLHTQSP PRGHILFGKEKVCYKFKHDILKHLTLT VDGIVSIPLVQVLRTTALTSACAEHSDQR VVYLEHVVVRTSISHPRRGDLQIYLVSPS GTKSQLLAKRLDLSNEGFTNWEFMTV HCWGEKAEGQWTLEIQDLPSQVRNPEK QG/DVFCTKCHSHQSFEESQDTKS VVAW EGWGCTHGVHCEVPKNLGIRSGKHHLPL KIKLV
5222	13273	A	6074	3	656	RSAFELWTQEGGLPSPSGW/VIIQSLKNL NRTDSRGRRSSPLISCLATGAGTSRHLLP LDWMSTIGCPGSQASRPESLNHTSGFP GFPAFHPRWWAFSGPQSHINQIPHKSPL CVGSLLQRAYTNLPLFPLQFLRSPTKES TYSQLHPSGSPPGGGPGPRQLGLTSPKAS EQPLPGFDWEGQGSDDRRAGADGSGRES SGTPGTAVLQRSSCGTSC
5223	13274	A	6075	3	873	AAEGLPPVRIPPFSETTANGTISFTEMVQ DMGAGLAVVPLMGLLESIAVAKAFASH NNYRIDANQELLAIGLTNMLGSLVSSYP VTGSFGR TAVNAQSGVCTPAGGLVTGV LVLLSLDYLTSLFYIYIPKSALGAVIIMG RGA VSTPRSRNALGFLKRLDLLPLCVT FLLCFWEEQDGILAGALGSLLMLLHSA RPETKGSEGPVLVLQPASGLSFPAMEAL REEILSRALVSPPRCLVLECTHVCSIDYT VVLGLGELLQDFQKQGV ALAFEG LQVP RLRVLLSR
5224	13275	A	6076	3	256	HASGMKNDLVYTGVDPETLPNRNGDGV /PTGLSPDPQFRTRKIQASLLTLEETMKQ LEELEEEFRRLKPLL ANLGNSVPHPGCT

5225	13276	A	6077	1	1966	MAEPLLRKTTGRLRGREKLPRKKSDAKE RGHPAQRPEPSPEPEPQAPEGSQAGAEG PSSPEASRSPARGAYLQSLPSSRRWVLG GAKPAEDTSLGPGVPGTGEPAGEIWYNP IPEEDPRPPAPEPPGPQPSAESEGLAPQG AAPASPPT/NSLPHQVPGPRQAPLHKDEE AAGTAAPPEPARPPGWQGAREGCPCGL RHQPLPPGQQRGGPRAGSRAWGHPEPE GRLPQRRGLTGAPSWAPITHLLPALRGG SRSPGTGRTLGPQPAPVRSRGAAASA GGHPQGPLLPTASGWGGQGNRATARG AGLPAAGPHLPPGAGGRQAPARPGACV GPWREKAPALCPGHRAAAHGLPRICQA QQLAVRLEPQGLLYAKLTLSEQQEAPAT AEPRVFGPLPLLVERERPPGQVPLIQKC VGQIERRGLRVVGLYRLCGSAAVKKELR DAFERDSAACVCLSEDLYPDINVITAVPSL ALEASGALTRGDPVFTGILKDYRELPTP LITQPLYKVVLAMARDPPNRVPPTTEG TRGLLSCLPDVERATLTLLDHLRLVSSF HAYNRMTQNLAVCFGPVLLPARQAPT RPRARSSGGLASAVDFKHHEVLHYLL QSWPUPACPDNLQMSRLTCDPNDSHLCT CRWQTPKW
5226	13277	A	6078	2	82	
5227	13278	A	6079	1	347	FFFFFFFFLETASHSVAQAGGQGHDLSSL QPPPPRFKQFSCLSLPSSWDHRHKPPHPP NFVFLVETGFHHVGOAGLELLTSSDPPA SASQMAGITGVSHCAWPITIFKQSNYGM L
5228	13279	A	608	514	792	DSRCPGAMACALRAPPRITNPVSAQWDP ETGSVAGEPWIWTQRERNQSALQRGNV PFCRCRDHEFTLDLGGQGGQIT*GQEFET SLANMAKPH
5229	13280	A	6080	1	779	
5230	13281	A	6081	1	214	HPTAAIVPPGPEAGLIYTPYEYPYTLAPA TSILEYPIEPSGVLVWLSQRKAKNSRTV LTEPSSDLNLTNA
5231	13282	A	6082	3	435	EPFPGGDCIPRATLESCRSMLMDTVGS GKLNLEQEFHHLWNKIKGWQKIFKHYD TDQSGHHQTATKMRNAV/NTDAGFHLN NQLAYDIITMRYADKHMNIDFDSFICCFV RLEGMFRAFHAFAFDKDGDIKLNVLWL QLTMYA
5232	13283	A	6083	2	339	GKPTLREFTHL/WDKIKGWREIFNNITPS QSGTITGYEMRNA/VNDAGFHLNPLVD IITSRTADNHMNIDFESFICCFVRLEG FRAFHAFAFDKDGDIKLNVLWLQLTM YA
5233	13284	A	6084	2	775	PSASDQSTWYLDESTLTDNIKKTLHKFC GPSPVVFSDVNSMYLSSTEPPAAAEWAC LLRPLRGREPEGVWNLLSIVREMFKRRD SNAAPLLEILTDQCLTYEQITGWVYSVR TSASHSSASGHTGRSNGQSEVAHAHACAS MCDEMVTLWRLAVLDPALSPQRRREL TQLRQWQLKVIENVKRGQHKKTLERLFP GFRPAVEACYFNWEEAYPLPGVTYSGT DRKLALCWARALPSRPGASRSGGLEESR DRPRP
5234	13285	A	6085	193	388	
5235	13286	A	6086	2	353	AAEDLSDALCEVDAVLADFASPFHER HFHYEEHLERMKRRSSASVSDSSGFS ESVADSLYRNSFSVFSDEKLNSPTDSTPAL LSATVTPQKAKLGDTKELEAFIADLDKT LASM
5236	13287	A	6087	315	411	
5237	13288	A	6088	2	283	
5238	13289	A	6089	3	189	

5239	13290	A	609	1169	1335	NFASDDKFS A*NPSNLGGQGGQIT*GQEFETSLANMA
5240	13291	A	6090	1931	3137	KMEISSLKEEINMEPNHSETMFKKAKTK AKKKPRKRSDDSSGGYNLSDIIQSPSSTGL LKSGKTNSVESLPELLTSDSEGSYAGVGS PRDLQSPDFTTGFHSDKIEAKVKPYVNG TSPVYSREDLKPWEKSPILKISAPQIPSN RIDTTSSASWVAGSFSPVSPVVDLRTIM EIEESRQKCGATPKSHLGKTVSHGVKLS QKQRKMIALTTKDNNSGLNSMQTVICIP SDAP*TVNE*GSSLHSVSSKSFRDFLEE KKSVTSHSSGDHVKKVSFKGIENSQAPKI VRCSTHGTGPPEGNHISDLPLLDSPNPWL SSSVTTPSMVAPVTFASIVGRGTSTKEAA LIRSREKPLALVQIEEHAIQDLLVFYEAFG NPEEFVIVERTPOGPLAVPMWNKHGC
5241	13292	A	6091	336	410	
5242	13293	A	6092	40	921	TEVPGVHSENDKNQKKIRKLDPKKKQ VDTVQIIQGSKKGSSFLIFFSPLIILTVEL QVGNVVAQELSIQLELFWRTASQSVTE PTAGLCLLNPGEQEMRALRGRKPLLI PSKQDLEWTSSKLQQTCS*GF*R*KEN* QTERSTPKPHLVGSSGQGNQAGEGNK GYPVRKRGSQIVPVC*HDCISRKPHCLN PK/YSL**ATAAKSQDTK/FNVQKSQAF LYTNKQTDSDQIMSELPTIASKRIKYL NPTYKGCEGPLQGLQTIQRNKTEPNK WKNIPVMGEEPM
5243	13294	A	6093	1	1960	MPPHSEQPHSPSTRQKRKVPFLVRQCPSF VIQAPKAKMDTFDGRKKQFTRFLFLFSM DQLGQGRFSMQTSLFALAVYRKDSPLV ACQVQALGNLEPSSVEAHVSSHGIAIDR KGWHVSLFSIQPGDCFPKALVEDSPDR ARRQSSKEEGWCRDRRLKFHSSKGA AAIVVSKSKYESPSFGVCFESLLNPRLT SRREKTISSSKRCRQCHAEETTUVFWAK ESQTGEQTGRGAGQRRMGMIICKACSM LPAERQDLRPTSLVISHGVSVKDRREHC QCPNYYPPLRNMSPLEHSIKICGGKKPQ NDSQRITITKVIVNQDFKQPDDELTSQG SRKETSEASLVTLWELVTAGQTPPLVTP RQTGSGVDLQQTPTDLQLRVLTIRKTN KQKGHPKPHLYVTIHKDQRTLHPKSTY TFFSAPHPTYSKIDHIVGSKALLSKCKRT EITNCLSDHSAIKLELRIKLTQNRSTTW KLNNLLNDYWVYKEMKAEIKMFFETN ENKDTTYQNLWDTFKAMYSKGFMALN AHKRKQQRSKIDTLISQLTELEKQEQTHS KASRRQETTKIRAELEIETQKTLQKINE SRSWFFEKINKIDRTLARLIKKEKREKNI DTIKKIKVISPPIPQKYKLLFILFGTGTQIN
5244	13295	A	6094	275	1839	CPSVGFSLQAGVVFCKLLTAKDF*QQT QGFSQ/RLSQLHTHGHRALQKKAISSEKNE FTIMGQISEATSALFGEKESKEATLRGEG ARNRDDRVDNSCRLQPPGQDGDGEGQKV PVKYSAGDTQANRVWGLQQTPTDLQL RVLTVRRKTNKQKQHPHQNPICTSASSK TKEIQTIREYHKNLANKLENLEEMDK FLDTYTLPRLNQEEVESLNRPTGSKIEAII NSLPTKSPGPDAFTAIFYQRYKEELRIK YLGILTRDVKDLFKENYKPLLNEIKGH KQMEEHSMMDRKNQYCENGHTAQEL EKTALKFIWNQKRAHIAKTILSQKNKAG GIILPDFKLYYKATVTKTAWYRYQNRDI DQWNRTEPPEIIPHIYNHLIFDKPDKNEK WGKDPLFNKWWYENWLAICRKLKLDSE LTPYTKINSRWIKDLNRPKTIKTLEENL GNTIQDIGMGKDFMTKTPKAMATKAKV GKWDLIKLSFCTAKETTIRVNRQPTW

						EKIFAIYPSDNLISRI
5245	13296	A	6095	78	1986	EKTKSASDWCT*K*RGVDGTLKLENTLQDI IQDNFPNLGRQANIQIQEIQIMPQRYSSRR ATPRHIVRFTKVKMKEKILRAAREKEIQ TTISEYYKHL YANKLENLEEMGKLLDTY TLPRQNQEEVESLNRPIAGSEIEAII NSLPT KKSPPGPDGFTAKFYQRHKEELVPFLLKQ FQSMEKEVILPNSFYEAIIIPKPGRDTT EKENFTPISLMIIDAKILNKILANRIQQHIK KLIHQDQVGFISGMQGWFNHKSXNVIIH HINRTKDRNHMIISVDAEKAFNKIQQPF MLKTLNKLGIQLTRDVKDPFKENYKPLL NEIKEDTNKWKNIPIYSWIGRINIVEIAILP KVSLEERERQHDQTHVQSLEKLDLLEQE YNKLTMMQALAEKKMQELEAKLHEEEQ ERKRMQAKAAEHPRCLYLAIFSA LKN LQDKIRRELERIQAEESVKTL SRETIEYK KVLDEQIQERENSKNEESKHNLQELTSQ LAAENKCNLLEKQLEYMRNMIKHAEME RTSVLEKQTPLLIPRQRGSRVDLQQTPTD LQLRVLTVRKTNKQKGHPHQNPICMSP SSKTKEERSSSPTTERTSWTENDFDELREE GFRRSNYSELKEELQTHGKEVKNLKIKI RRMAN
5246	13297	A	6096	870	1860	TRKSRRNG*IPGHIHPPKTK\QEEAESLNR PITGSEIEAII NSLPTKKSPTGDTGFTAKFY QRYKEELVPFLLKLFQSIEKEEILPNSFYE ASIIIPKPDRTTKKENFRPISPMNIDAK TLNKTLANRIQQHIKKLIHHDQVGF/H NARLVQHMQINKRNPAK*NQRQKPHD YLNRCRKGL*QNSTALHAKTSQ*ISVGSS GQGNQAGEGNKGYSIRKRGSQMSLFAE DVIVYLENPIVSDQNLKLISNFSKVSGY KINVLNSQAFLYTNNRQTESQIMSEVPFT IASKRIKYLGIQLTRDVKDLFKENYKPLL KEIKEDTTFHAHG
5247	13298	A	6097	453	545	
5248	13299	A	6098	1	235	
5249	13300	A	6099	3	706	
5250	13301	A	61	1	1194	
5251	13302	A	610	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGT AQLSELHCDKLHVDPENFKLLGNVLT LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
5252	13303	A	6100	368	798	LSYIYMHPIQ/RAPRFIKQALRDSQRDL SHTIIMGDFNTPLSTLDRPTRQKVNDIQ ELNSVLHQVDLIDIYRTFHPKSTEYTF APHRTYSKIDHIVGSKALLSKCKRGEIT KIKLELRJIKQTQNRSTTWKLNLLND Y

5253	13304	A	6101	1	666	
5254	13305	A	6102	412	681	GDIIPKCSQPLNIHFHYVFKMR*GSSRPG RGPEIRCFSPAARLLLTAAHQWQWLWAI FQQVALLPHAGGADHVILFSPVSKAT EKIVG
5255	13306	A	6103	489	585	
5256	13307	A	6104	1	1474	MDMLDKGMIQVPVESLECPEHFVQEPV LPSELRSEKQEPWNQPSLDLEPSFATYM ACSM LPAERQDLRPTSLVISHGVSVKDR REHCQCPNYYPPLRNMSPLEHSIKICGGK KPQND SQRJTITKVIVNQDFKQPDDEL SQGSRKETSEASLVTLWELVTAGQTFQ DDRMGTAPVYSSQRERRRRRVISACPTE PPLVTPTQTGSGVDLQQTPTDLQLRVLT RRKTNKQKGHPKPHLYVTIKDQRTLH PKSTEYTFPSAPHPTYSKIDHIVGSKALLS KCKRTEIITNCLSDHSAIKLELRKIKLTQN RSTTWKLNLLNDYVWYKEMKAEIK MFFETNENKDTTYQNLWDTFKAMYSKG FMALNAHKRQQRSKIDTLISQLTELEK QEQTHSKASRRQETTKIRAELEIETQKT LQKINESRSWFFEKINKIDRTLARLIKKK REKNQIDTIKKIKVISPPIPQKYKLLFILF GTGTQIN
5257	13308	A	6105	1	903	
5258	13309	A	6106	803	1184	
5259	13310	A	6107	1458	1568	TQTNLQEKNTTQSKSGQRV*TDTSRKK TFMQPTDT
5260	13311	B	6108	24	2456	MGVSSGDLKGLLHPRVRVGNEYVTKG QSVEQVFAVGALAKATYDRLFRWLVS RINQTLDTKLPRQFFIGVLDIAGFEIFEFN SFEQLCINFTNEKLQQFFNQHMVFLEQE EYKREGIDWVFIDFGLDLQPCIDLIEKEE RLKPSRKKITKKHTKKRTASLILHAMICC RSLNSSKTKNTKCLNSINQRLKIWSLQK DLMCGTAGRCKTLHGTSQNLNTAIHVVL ALAGSPKDADDTSIYMFYQKHILYCIVD SECKSRDVLQSYFDLLGELMKFNVDFAK RFNKYINTDAKVFLKQINSSLVDSNMLV RCVTLSLDRFENQVDMKAALLSIPGFVE RLCKLATRKVSESTGTASFLQEELEWYT WLDNALVLDALMRVANESEHNQVFW FEQHGLVSGAEKAPGTTIDQAPRIYRWS DLTRTQAQWQSAMTWSMSAFTETFLTE RDKQSKWSGIPQLLLKLHTTSHLHSDFV ECQNLKPLLVIPRQTGSGVDLQQTLDL QLRVLTVRRKTNKQKGHPHQPICMSPS SKTKEAKNLDKRLDEWLTRINSIEKTLN DLMELNTMARKLRDACTSFSSQFDQVE ERVSVIEDQMNMKREEKFREKRIKRNK QSLQEIWDCVKRPNLRLIGVPESDGENG TKLENTLQDIIQENFPNLARQVNIQIQEIQ RTPQRYSSRRGTPRHIVRFTKVEIKEKIL RAAREKGRVTHKGKPIRLTAVLLAETLQ ARREWGPINFILKEKNFQPRVSYPAKLSF ISEGEVKSFTDKQMLRDFVTTRPALQEL LKEALNMERNNRYQLLQKHAKL*
5261	13312	A	6109	82	1208	LVEGKLTNRKNIHTKTPSVHHHHQRPKC GREMWGQSPHTESLLGHHLVELWEEGH CPLDPRMVDPTACTMYLEKPQTLNASL /WKAARSQVPQGGGKGTKKSETEIQATI REYYNKHLYANKLENLEETEKFLDITYTL PRLNQEEVESLNRRTGSKIEAINSPLTK KSPGRDGFTAIFYQGYKEELVPFLKLF QSIEKEGILPNSFYEASIIIAKPGRDTATT TKNFRTISLMNIDAKILNKILENQIQHIK KLIHNNQVGFIPGMQGWFIHKSINVIHH IKRTKNKNHMIISIDAGKAFDKIQQPFML KTLNKLIDGMYLKIIRAIYDKPTANIILN

						GQKLEAFPLKTRQGCHSYSTLTTPIQH SV
5262	13313	A	611	3	552	HSLFGTSEVINKLRSPDAMGHL/TPEEDK ATITSLWGKVNVEDAGGETLGRLLVVYP WTQRRFDSFGNLSSASAIMGNPKVKAH GKKVLTSLGRCHKSTWDDLKG/TPFAQA *SELHCGQACMWDPEELSSFLGKCCWV TRFWAIPFSAKEFHPWRLQGFPKSRRW QKMVTGVASALVPSRYH
5263	13314	A	6110	1261	2396	LNALYFLLLPDCPGQN**TASKTNKEEK REESNRCNKK**S'NITTNPTIEQTTIREYY KHL YANKLENLEEMDNFLDYTLPRLN QEEVESLNRPTGSEMAIINSLPTKKSPG PDGFTADFYQSVGSSGQGNQAGEGNKG HSIRKRGSIQVPVCR*HDCISRKPHRLSPK SP
5264	13315	A	6111	1	819	MCHSAIFTVLQPPLVVIPRQTGSQVDLQ QTPTDLQLRVLTVRRKTKKQKGHPHQN PICMSPSSKTKATFEDSVWHFAERIIPDP NVIKLRKEELTLNNIRQYYVLCEHRKDK YQALCNITYGSITIGQAIIFCQTRRNAKWL TVEMIQDGHQVSLLSGELATVEQRAFFIQ RFRDGKETVLITNTNVCARGIDVKQVTIV VNFDPVKQGEEDYETYLQRIQRTGRF GKKRLAFNMIEVDELPSLMKIQDHFNSS IKQLHAEDMDEIEKIDY
5265	13316	A	6112	1	1068	
5266	13317	A	6113	3	655	LLSNDQRCISISFNKTREKASATRVYIVLD NSGFELVTDLILADFLLSSELATEVHFYG KTIPWFVSDTIHDFNWLEQVKHSNHK WMSKCGADWEEYIKMGKWVYHNHIFW PVPHEYCAMQVAHDLYAELQKAHLIL FKGDLNRYRKLTDGRKWEFSVPFHQALN GFHPAPLCTIRTLKAEIQVGLQPGQGEQL LASEPSWWTTGKYGIFQYDGPL
5267	13318	A	6114	3	225	GACGRPPPPFRPLPRGAPP/PAMAAPFSP PASAPGAAPTFFPSLGPAPWHPALFLTGIN LTCFSKEREKEAQSXY
5268	13319	A	6115	2	624	
5269	13320	A	6116	2	594	NRGSCHRGKLFEGAFKYKMGQIEIDDQV EGLQYLASRYDFIDLDRVGIHGWSYGG YLSLMALMQRSDIFRVAIAGSPVTLWIF YDTGYTERYMGHPDQNEQGYLGSVA MQAEKFPSEPNRLLHGHFLDENVHFAH TSILLSFLVRAGKQYDLQSYQERHSIRV PESGAEHYELHLLHYLQENLGSRIAALKV I
5270	13321	A	6117	4	310	
5271	13322	A	6118	1	601	LQKWSLEYIQEIAGCRTVPVEVGSRYTD EEWSQTLMTVNEFISKYIVNEPRDVGYL AQHQLFDQIPELKQDISIPDYCSLGDGEE EEITINAWFGPQGTISPLHQDPQQNVLVQ VMGRKYIRLYSPQESGALYPHDTHLLHN TSQVDVENPDLEKFPKFAKAPFLSCILSP GEILFIPVKYWHYVRALDLSFSVASFWWS
5272	13323	A	6119	3	306	EIIAFS/DRAED/FRKLGEVLGVSVD SQF THLAWINTPRKEGGLGPLNIPLLADVTR RLSEDYGVLTDEGIAVYVCPAGWKPGS

						DTIKPNVDDSEYFSKH
5273	13324	A	612	251	488	GGWITRSGDRDHPG*HGE/IPVY*KKLAG RGGGRLKSQLLGRLRQENGMSGGRAC SEPRSHHCTPAWVTERLLKKKKK
5274	13325	A	6120	1	774	PTRTKGFAGQGS LG AENAGPRV VIVRAS RGLPTQLSVMASGNARIGK P ADFKATA VVD\GAFKEVKLS DYKGKYVVLFFYPLE LHFCGAPTEIIAFSNPCRGTSRKLGL*SAG ASRWDS\HFTHLAWINTPRKRGEALGP L\NIPPALLNGEPERLV*GIYGRC*KTD*G AFAYKGASLFIRLGKGC PFAKITLLIDL P VGTLP LDEGFCGLVQGLSQVHKTS HGG KFVPA\GWKALPVATD*APT WMTARKY FSKH
5275	13326	A	6121	3	306	KNWPPPRFF/YKGPPSSSSSSSSSSSSSS PLTPFPSSSPGVCPLKGSSSSPPPKPVG RPPSSSQGGKPPFFKPPNFFPKNSPTG GAPLKPFWKNF
5276	13327	A	6122	1	200	PPHNVP RRWSANLYLTP\SNMVLLTAIAL IGVCVFILAIIGILHWQEKKADDREKRQE AHRFHFDAM
5277	13328	A	6123	2	297	
5278	13329	A	6124	1	211	VSPHVLIRRQSSRHLGSLYLQAPFV*MA GCLLETGSHV*TYKDLHVITITRHLPLW KTRSTLNFQVARSS
5279	13330	A	6125	1386	2151	DYLCEKHQYRQLCGYLQPCQGS PCVWT PRAGSGRAALRTGMAVLARAAGQRLRA RLPPQAQRARAAAGALRERGLCAPPRPP APGAGRQSPQQSGELRVPSTTSSTCRSC WSARPWGSRRGRAVPQRRRNATATGSP RPLRRLRPAASPRRGAASERPNWDP PRTARSRALNLRSSSKVNATLVPCHKET EAQRGVWTGETIPVRTCFGLIGQQSHS MEVAEWTDKAVNHIWKAPRNTALKMT QTYNDPAD
5280	13331	A	6126	1	1337	MRNKAVGQARAPPAQLAGWAAPFKLL DGRPQVFPEMPQPVAGCTATGPREKLG GPGRPRGRVAASVQRLMNEMNLSPVGM EQLTSSSVSNALPVSGSHLGLAASPTHSA IPAPGILSYLADRPPQYIHPNSINVDGNT ALSITNNPSALDPYQSNNGNVGLEPGIVSI DSRSVNTHGAQSLHPSDGHEVALDTAIT MENVSRTVTSPISTDGMAEELTMDGVAG EHSQIPNGSR SHEPLSVDSVSNLAADA VGHGGVIPMHGNGL\ELPVVMTDHIAS RVNGMSDSALSDSIHTVAMSTNSGPRE SSAVAPVASHFSVHVLF SFIWVSPADAE TLGESLLGLTVYGSNDQDPYVTLKDTEQ YEREDFLIKPSDNLIVCGRAEQDQCNEV HGNYIAVGNMTPVIEVWDLDIVDSLEPV FTLGSKLSKKKKKKKKVKVKKLINI

5281	13332	A	6127	1	2412	MKMNLSPVQQAQLTSSSVSNALPVSGS HLGLAASPTHTSAIPAPGLPVAIPNLGPSLS SLPSALSMLPMGIGDRGVMCGLPERNY TLPPPPYPHLESSYFRITLPGILSYLADRPP PQYIHPNSINVDGNTALSITNNPSALDPY QSNNGNVGLEPGIVSIDSRSVNTHTGAQSL HPSDGHEVALDTAITMENVSRVTSPISTD GMAEELTMDGVAGEHSQIPNGSRSHPEL SVDSVSNLAADAVGHGGVIPMHGNGL ELPVVMEETHIASRVNGMSDSALSDSIH TVAMSTNSVSVALSTSHNLASLESVSLH EVGLSLEPVAVSSITQEVAMGTGHVDVS SDSLSFVSPSLQMEDSNSNKENMATLFTI WCTLCDRAYPSDCPEHGPVTFVDPDPIES RARLSLPKQLVLRQSIVGAEVGVWTGET IPVRTCFGLIGQQSHSMEVAEWTDKAV NHIWKIYHNGVLEFCIITTDENECNWM FVRKARNREEQNLVAYPHDGKIFFCTSQ DIPPENELFFYYSRDYAQQIGVPEHPDVH LCNCGKECNSYTEFKAHLTSHIHNLPT QGHSGSIGPSHSEKRWKCSMCPQAFISP SKLHVYFMGHMGMKPHKCDFCSKAFSD PSNLRTHLKIHTGQKNYR\CTLCDKSFTQ KAHLGVHMHVIHTGEKNL\CDY/CVDK LFYGGSRDLQGRHVLIHTQER\QIKCPK CDKL\FLRTNHLKHLNSHEGKR\DYVC EKCTKAYLTKYHLTRHLK\CKGPTSSF VQAPEEEEEDDSEEDLADSVGTEDCRI NSAVYSADESLSAHK
5282	13333	A	6128	1	1767	MQALIPLESGSGMTQTSGVSTETGDVVK DMGVNNQSKEGRCPWKDHEAAPWISEK PKKRGNEGKSKFKNNYSTQPARMERK EEILNPPFEGKDGDGTGSIPHSKEIGFTFP KMHDSFSHTPDTPTEAVDRKGGNFQ VNFVELGTLGENKISTVKASTVTEPPAK VTDVSCQEQIQGAGFVPSVSEENKTD ANRYTAVADKPERSNDGKSSGSAACE KLPTPTPQVVKEGDSFPDTLAKNGQEIA AQISKSLMVDNYTKDGVPGQERPKGPSA VVPSTSTGGVALPITTAIETVNIHGDHSL KNKAELADSMKNEAGIDEGHVIGESV HSGASKHSVEKVTELAKGHLLPG/CASR RPEPTRRGQSPRR/T/HADRGNFFAHPVN EEKETKEGSVAVQIPDLLEDKAQKLSFC EDQNAQDRNSKGSDSLNNKVDLTLLSP KSENDKLKEISLACKITELESVSLPTPEIQ SDFLSKVEAPPSEVADTLVIMTASKGV RLPEPKDKILETPQKMTESKSTPGEGK KEDKSRMAEPMKGYMRPTKSRLTPLL PKSTIQEQERHKQLKSAGMNLPGWNV ACGF
5283	13334	A	6129	893	3822	GKGNHATVNLLSFLQRPQVGSVLVHPPVV G/HGNQRKSIHVDLEPQORDLGREAWDI ESTPIMMKKKKKPKQKRYSQPRAGGP SDDDNADKPKGHPFAADTQKSGVLPSQ PTTMGTEYGLVSGENLKRECLVNSSAAR LVAENFVSESLRIPLYPSEEAPKTAISSQS KLRVEEESKSNKSVLQNDKLLKQHE YKPQPAPHLKTPVDKSQSVGPLNLKGPL AEVSAYNVETPLDIRLKEGCSFFLDQEV MGVV
5284	13335	A	613	5987	6461	GVNKSWNHWFHLGVREAHEHAGVVRT PHHDLVLLPRGMAACALGACSLGAVAL PGHPVAGGVSHGCSSTGTYRGERHRV GRMRQKNRLNPGGGGCGEPRSRHYTPA WATQNSVSKQNKTKQNKHLVHWN RKKWIYLLFALKKYKMSMLCRKS

5285	13336	A	6130	1	1965	MQALIPLESMTQTSGVSTETGDVVK DMGVNNQSKEGRCPWKDHEAAPWISEK PKKRGNEGKSKFKNNYSTQPARMERK EELNPPFEGKDGDTGSIPHSKEIGFTFP KMHDSFSHTPDPTVEAVDRKGGNFQ VNFVELGTLGENKISTVKASTVTEPPAK VTDVSCQEQIQGAGFVPSVVSEENKTD ANRYTAVADKPSKRSNDGSKKVKNSS PEKHILENKIDATKIHVPMETTGDQGIEG WPIWTKIEIL/RFTCPRTPELINKSSPLEV LESAACEKLPTTPQVVKEGDSFPDTLA KNGQEIAPAQISKSLMVDNYTKDGVPGQ ERPKGPSAVVPSTSTGGVALPITTAIETV NIHGDHSLKNKAELADSMKNEAGIDEG HVIGESSEVHSGASKHSVEKVTELAKGH LLPG/CASRRPEPTRRGQSPRR/T/HADRG NFPAPVNEEKETKEGSVAVQIPDLLED KAQKLSFCEDQNAQDRNSKGSDSLNNK VDLTLLSPKSENDKLKEISLACKITELESV SLPTPEIQSDFLHSHKVEAPPSEVADTLVI MTASKGVRLPEPKDKILETPQKMTEKSE SKTPGEGKKEDKSRMAEPMKGYMRPTK SRGLTPLLPKSTIQEQERHKQLKSAGMN LPWGNVCACGF
5286	13337	A	6131	1632	2783	VILLSKSLIIQENFFFFF*QSFALVAQAGV QWSNPCSLQPPPGFNGFSCILPSSWD YRRVPPCPANFVFLVETGFHHVQGAGL ELLTSGDPPTSASQSAGITGVSHHAQPAE DIANNVTLFFPLHLFL
5287	13338	A	6132	240	564	NGWEFKHGPSWPGGFFFFFETESRSV A/TRLECSGVIPAHRNLCPLGSSDPSAS QLTGTGTAHHHARLIFVFLVETGLRHLS QAGLELL/NLIHQPNWNPQELGLQA
5288	13339	A	6133	1	1898	MAASGRGLCKAVAASPPAWRRDNTA RGGLKPEYDAVVIGAGHNLVAAAYLQ RLGVNTAVFERRHVIGGAATEEIIIPGFK FSRASYLLSLLRPQIYTDLELKKHGLRLH LRNPYSFTPMLEEGAGSKVPRCLLLGTD MAENQKQIAQFSQKDAQVFPKYEEFMH RLALAIIDPLDAPVDMAAFQHGSLLR MRSLSLTKPLLKAGRILGAQLPRYYEVL TAPITKVLDQWFESEPLKATLATDAVIG AMTSPHTPGSGYVLLHHVMGGLEGMQ GAWGYVQGGMGALSDAIASSATTHGAS IFTEKTVAKVQVNSEGCVQGVVLEDGTE VRSKMVLSTSPQITFLKLTPQEWLPEEF LERISQLDTRSPVTKINVAVDRLPSFLAA PNAPRGQPLPHHQCSIHLNCEDTLLHQ AFEDAMDGLPSHSDLGSAKIHTPKDRKC IPGEKSEDEGRPVIELCIPSSLDPTLAPP CHVVSFLTQYMPYTLAGGKAWEQERD AYADRVFDCIEVYAPGFKDSVVGDRDILT PPDLERIFGLPGGNIFHCAMSLDQLYFAR PVPLHSGYAGPLQGLYLCGSGAHPAPY SEILTSLTKRVPIQHVHPQLRLWAVDLA PPQTFGAGSLEGARIY
5289	13340	A	6134	163	513	CLLFFLTSPHFSVFGTPVFDCNRVYAPGF KDSVVGRDILTTPDLERIFGLPGGNIFHC AMSLDQLYFARPVPLHSGYRCPLQGLYL CGSGAHPGGVMRAAGRNAAHVAFRD LKSM

5290	13341	B	6135	1	720	MGCKHWMTCGRARKEGKDDSYMQTQ WLHRAFAAPPETCPFPLRDHIQTGRDLYI LGTFEKCVFWGGAEREVWRERHQREPG LRAAFAGQLEFPAGVGLAGPALGAAGQ PCWPRGNEGLSTRASGCGGCTGSSSSAS PPVLCSSHQALAAFLRGRSRDLQRAMP EPPTPSMGSCAAGASPTSTTPCSKEPSID HPRAEECECTARDWQAAPPAALVRDPL GEASWAPESGGDMESLYI*
5291	13342	A	6136	133	311	QLHADKVSFATHA/GVPWCDHGLFQP QPPPLKRSSCLSLWSSWDYRHAPHPAII CLLL
5292	13343	A	6137	1	1098	
5293	13344	A	6138	2	241	PPRFKRFSCLGLSSSWDYRCTPPRSANFC NLVEMGFHHVQAGLELLTSDDPPTLAS QSAGITGVSHHAGPHRFLINIY
5294	13345	A	6139	3	333	YFISSHFISFHYVISFHLITFHLISFH/HHFI SSFHFISSFHLFISFH/HHHLINSFHLISSFH HFISSFHLISYLSIFQF/HFHYFMSSHLISSF HLITSHHFINFIISSFH
5295	13346	A	614	180	345	GLSFHMLKKKVYKMYCIYICTHTHT HLI*MYINRPSLYDYQFLFYLSQLDSC
5296	13347	A	6140	3	137	GVSPCWPGWSRAPDLK*SAHLGLPKCW HYRRPIHDCGQAPHLHC
5297	13348	A	6141	967	1386	KKKKIFIGHQLRWL*RFFFFFFETGSHS VPQAGVQWCDHGSLQPSQSPAQRSSNL SLPSSWDYRHLPPCLANFIFFFVEMGLT MWPRLVLNS/GPSDLPASVSQ/SAGITGV SHRNWWPMKIFFFQTASHSVAQAGVQ WCNLGSLQALPPAFMPFSCLLPQPPSSW DYRSLPPCLANF/CFGLVETGVSPCWPG WSRTPDLR
5298	13349	A	6142	278	643	GRQERGERERSSRPLGGRKCQ/HWLAVN AQOKLLALQVEKAKVEVGVPALGILV VAGCSFAIRRYQKKSLSLKQPQNPVLEA AVGVPPVEMSLPHASSSLTLVPCLRRSLD PFLCFPLSLAKV
5299	13350	A	6143	18	479	QRTFCKGKWKGAAKILIDLNNLFLCKLE OKGTDLALVIAMENYGSLSGSKKGVDLP AVDLLAMSEKDIQDLKFGVEWDVDMVF ASFIHVASNVHEIRKAILANWSKVPTCPP ELGSYLPRGTETHSYFYISYSSDQIQICKP LHYSYGRNYDTL
5300	13351	A	6144	3	282	RSPPA/GSPPPSAPAPRLPPPPAPPPALPFP ASRPTFPPLPVSLPVLPSRSLSLPPAFLF SFFCIGVLGLLHTRALSIAAYIKAGAIMQ LYC

5301	13352	B	6145	26	2671	MAAPGAPAEYGYIRTVLGQQILGQLDSS SLALPSEAKLKLAGSSGRGGQTVKSLRI QEQQVQQLARKGRSSVGNLHRTSSV PEYVYNLHLVENDFVGGSPVPKTYDM LKAGTTATYEGRWGRGTAQYSSQKSVE ERSLRHPLRRLEISPDSSPERAHYTHSDY QYSQRSQAGHTLHHQESRRAALLVPPRY ARSEIVGVSRAGTTSRQRHFDTYHRQYQ HGSVSDTVFDSIPANPALLTYPRPGTSRS MGNLLEKENYLTAGLTVGQVRPLVPLQ PVTQNRASRSSWHQSSFHSTRTLREAGP SVAVDSSGRRHLTVGQAAAGSGNLL TERSTFTDSQLGNADMMENTLERAVSML EADHMPPSRISAAATFIQHECFQKSEARK RVNQLRGILKLLQLLKVNEDVQRAVC GALRNLVFEDNDNKLEVAELNGVPRLL QVLKQTRDLETKKQITDHTVNLRSRNG WPGAVAHACNPSTLGGQGGRTSRGVR DQPDQHGLLWNLSSNDKLNLMTEAL LTLTENIIPFSGWPEGDYPKANGLLDFDI FYNVTGCLRNMSAGADGRKAMRRCD GLIDSLVHYVRGTIADYQDDKATENCV CILHNLSYQLEAELPEKYSQNIYIQNRNI QTDNNKSIGCFGSRSRKVKEQYQDVPMP EEKSNPKGVEWLWHSIVIRMYLSLIAKS VRNYTQEASLGALQNLTAGSGPMPTSV AQTVVQKESGLQHTRKMLHVGDPVSKK TAISLLRNLNRNLSLQNEIAKETLPDLVSH PDTVPSTDLLIETTASACYTLNNIQNSYQ NARDLLNTGGIQKIMASAGDAYASNKA SKAASVLLYSLWAHTELHHAYKKAQFK KTDVFNSTRKAYHSLKD*
5302	13353	A	6146	2	355	FYFLRWSFTLIAQAGVQWRDLGSPQPLP PRFKQFSCSLNSWDYRHAPPRPANFL CF/LVETRFLHAGQAGLELLTSGDPPTLA SQSAGITGASHRNPVQSILRLEGLETIV QPPT
5303	13354	A	6147	3	277	FFLETEFRSTQSPRLECSGAISAHCNLQLP GPSHSPASASRAAETGLCHHARLIFVFL VEMRFHHVQGSGLELRQAICLPRPPKVL GPQA
5304	13355	A	6148	20	363	LHHFPKPCPAHFSACIHWPOHPHTCACT QAHMCKPKH/THTHACTH/ICVLSGTHP WVHTGVCARSSSSS/PSSSSSLRYTRQV HALLHTAQPQRLKASEPTPAQLQPGRQE GLTG
5305	13356	A	6149	3	301	STATWAGVQWCNLSSLQPLPSGFKPFSC LSLPGSWDHRHLPCCPANFLYCFVLVEM GFHYVGQAGLKLLT/S/GDLCASAPQSAG STGVNHRVRLGLLIYP
5306	13357	A	615	173	338	GLSFHILKKVKYKYMCIYMYICTHHTH LI*MYINRPSLYDYQFLFYLSQLDSC
5307	13358	A	6150	15	352	DSIFTLVCAEHINFLRAGQHWGCVIDCL HYNKQAVTGDHSSYSAERSSTPENGGRE GTREQGERRGGTWGRGGG/QERPSIPDR QKNQGRGGGNPLSGRGKVKAITILLII
5308	13359	A	6151	20	415	
5309	13360	A	6152	24	156	SSFVMELCPELVGWSH*LQE*SRGPLR *RTHSSRYMVKRQE
5310	13361	A	6153	128	880	
5311	13362	A	6154	310	719	LRTYPTIRGPVREEKWGYVQTESRSVAW AGVQWHCAFTELRGFLVSLTSMKPRTL AVSVPALKVARLEFVSSDVQRWGFHHV GPAGLELLTSSDLPVSASQMAGITGTRH RAWPWEHVYMDVFHFLKQTEGNLLDL
5312	13363	A	6155	1	169	FFETGSCSVAQAGMQCSDHGSQPCPPG \SWDPPALASQSAGITSMSSHHPKLF

5313	13364	A	6156	525	972	NHLGGFKQIMPRLHPMPMKSFGLVVSAR QLYFFFFFETESHIVQAGVQWRDLGS LQPLPPGFKQFASCLSLPSSWNYRHTLPRP ANFLYFLVETGFHCVAQAGLKLSSGNL PALASQSARITGMSHHARLAVVFFKALL SSSRTRI
5314	13365	A	6157	300	500	DGLCSKQT*NGVPSITNPIKTANQHOGK KQHPIQGNRTAPSSSVSYMRCCELLPKG TGLEVVRESG
5315	13366	A	6158	1	1889	MGLLQGLLRVRKLLL VVCVPLLLPLPV LHPSSSEASCAYVLIVTAVYVWSEAVPLG AAALVPAFLYPFFGVLRSNEVAAEYFKN TLLLVGVICVAAAVEKWNHAKRIALR MVLMAKAPGMLLLCFMCCTLLSMW LSNTSTTAMVMPIVEAVLQELVSAEDEQ LVAGNSNTEEAEPISLDVKNSQPSLELIF VNEDRSNADLTLMHNENLNGVPSITNP IKTANQHOGKKQHPSQEKQVLTSPSRK QKLNRYRSHHDQMICKCLSISYSATI GGLTTIIGTSTSLIFLHFNNQYPAAEVVN FGTWFLFSFISLMLVVSFWFWMHWF LGCNFKETCSLSKKKKTKREQLSEKRIQ EEYEKLGDISYPEMVTGFFILMTVLWFT REPGFVPGWDSFFEKKGYRTDATVSVFL GFLFLIPAKKPCFGKKNDGENQEHSLG TEPIITWKDFQKTMPEIVILVGGGYAL ASGSKSSGLSTWIGNQMLSSSLPPWAV TLLACILVSIVTEFVSNPATITIFLPILCSLS ETMHINPLYTLIPVTMCISFAVMLPVGNP PNAIVFSYGHQKIDMVKAGLGVNVIGL VIVMVAINTWGVSLFHLDTYPAWAR VSNITDQA
5316	13367	A	6159	41	570	SLHDSTADSIRTTCCQGVISTLKAHYLRRT FQHILEAADGEDPSYIKEFWRNYSIMDA VDMAIAWEEKPALMNSMWKKIWPEC VQAQRFSQADNIAQLQKNIVTLARNVAF EEVAEAAVDQLLSHEEDLSNEELMRLE QELAVGEEEREDGPWALWQLTTGRLSA ALSHFEAGL
5317	13368	A	616	363	412	
5318	13369	A	6160	3	367	HASAHAFGQLSCVSKLMRDVCGQPCFSP RGMV/LYLQWGRKYSRIGNSSWQIKEK VWRFSTAFCSVNEWKFADILSMADHLK KCSYNVVEKREEAIPLPCMCTRELTK GRSLRSVLKPVL
5319	13370	A	6161	74	295	AEDKSQMLLDLRWSYIRTSSSADRSHA SGPRIAHKWSTVDRNRPRYDSNNELAEK EQLS*ICSICSRVFFKA
5320	13371	A	6162	32	342	
5321	13372	A	6163	184	556	
5322	13373	A	6164	251	1133	PNDKRLILFRTKPWQCLSVRTVARRCT ALTFIASEEKVLVADKSGDVYSFVLEPH GCGRLELGHLCMLLDVAVSPDDRFLTA ARDEKMRVSWAAAPHSIESFCGLGHTF VSRISVVPHSARALLSSSGDGTLLRLWEY RSGRQPALLSPWPVCRSSVDPQAPQKFA ASRIAFWCQENCVALLCDGTGCLHLP GRPQTAVGVQAAAGVPAPSVGRGFRGD PGAVGAPGLARKPPWCSYRHVGDQWQ SVPESTVLKKVSGVLRGNWPMLELRCR RRRQLSAVSYKAHVPTT
5323	13374	A	6165	1	391	APMAGCLSFYYLIQGGDDKGFSLYTRDG AGLYKEIWKADRPGNAAWNLAEGEFNA PYPMEVIFEDAFNGPKGGYVALDDISFSP VHCQNQTELLFSAVEASCNYEQDLCNFY QDKKRPGWTRVKGKPNML

5324	13375	A	6166	3	1459	KLPPPPGECTFEQDECTFT/AGEKKPEQL AQEEGÆETPTSYTGPKG DHTTG VVSSH ASECPFGLNSDALLPKKICSLVLLLTSL AASADSGTMLLRWGCLKSKIKMSVGLV PSEISLLGLQMAAFLHMAFLCQCTPD MYLLLT VGNRNHGRQKQIKGALLYWTF TTCRHCARNLNILSTTCKDKVGEFAKLS KIELLEATEKSIGPPEMHKYHCELKNLRE KEKQLEDLLATKIASKVAKLGILLGMPT LEIGGKEGGGWGTGYWLR AEKEDGDYL CIEGSEGLNTEKIVPVMQERN SININKKD VHSETPAKGHQLQRPKVDKSMKMGRN QHKKAENSKTQITSSPPKDPKSSPAEQ CMENEFDKLTEVGFRRWAITNSPELKED VLTQCKEAKNLEKRLDKLLTRITSLEKS MNDLMELKNTGRELCEAYTSINSRIDQV EERISEIEDQLNEIKQDDKIREKRVKRNK QSPKKYGT
5325	13376	A	6167	1	393	
5326	13377	A	6168	1	1137	
5327	13378	A	6169	1	1793	MAETAVINHKKRKN SPRIVQSNDLTEAA YLSRDQKRMLYLFVDQIRKSDGT LQEH DGICEIHVAKYAEIFGLTSAEASKDIRQA LKSFAGKEVVFYRPEEDAGDEKGYESFP WFIKRCATAVGRQRT HADKERGAREKG GEKKAKAKKTS GTRKRGGRERKKKGE QEGKDGQRNAQTKGEKRQPHKANTPPK TLQORKEKKTGDSHRRKKLFKESEKVL SQEWEHDFVIETMATGARPQLLFSAVEA SCNFEQDL CNFYQDKEGPGWTRVKVKP NMYRAGDAHTTGLGYLLANTKFTSQPG YIGRLYGPSLPGNLQYCLRFHYAIYGFLK MSDTLAVYIFEENHV VQEKIWSVLESPR GVWMQAEITFKKPMPTKVVFMSLCKSF WDCGLVALDDITIQLGSCSSSEKLPPPPG ECTFEQDECTFT/AGEKKPEQLAQEEGÆ TPTSYTGPKG DHTTG VGYMYIEASHM VYGQKARLLSRPLRGVSGKHCLTFFYH MYGGGTGLLSVYLKKEEDSEESLLWRR RGEQSI SWLRALIEYSCERQH QIFEAIRG VSIRSDIAID DVKFQARP CGEMEDTPQQ SSGYSED LNEIEY
5328	13379	A	617	540	820	KIGPQPGQHSKTL SL*TIKKKLARCGGTC LWSQLLGR LRWEDCLSAGS*GCGEL*SY HCTPAWVTERDLVSKTQKNRAITGKLLL DVL SLLIR
5329	13380	A	6170	2	392	RNKKQGYPAFHV FSTFFYPK*KSGGYQA VKRWTKGVNLFEQEILVPIHRKVHWSL VQYLQDESKTKRNSDLNLEWTHHSM KPHEIPQQLNGSDCGMFTCKYADYISRD KPITFTQVSEDLHPFTCY
5330	13381	A	6171	2	386	MNLLVERNKKQGYPALHVFSTFFYPKL KSGGYQAVKR/ WTKGVNLFEQEILVPIH RKVHWSLVVIDLRKKCLKYLD SMGQKG HRICEMVLGYLQDESKTKRNSDLNLE WTHHSMKPHEIPQQLNGE
5331	13382	A	6172	3	162	
5332	13383	A	6173	3	407	TRRADPLRTWRWHNLLVSFAHSIVSGIW ALLCVWQTPDMLVEIETAWSLSGYLLV CFSAGYFIHDTV DIVASGQSASLLEYLV HHVMAMGAFFSGIFWSSFVGGGVLTLL VEVSNIFLTIRMMMKISNAQDHLL
5333	13384	A	6174	13	367	KYLFFFLKDHTKVGKRRMSIRLHQNLGR GRTKSC LKKLVAGANCRDQDDPSPRNQ QPRSATFRPSPNRCH*IPQ*PYSAQC PHPG SGGQFRSLRGLIVEYRSSERHISYRRYAG LCEY

5334	13385	A	6175	3	413	AAIEELCGRQARAEAVRGLRGRGLR/ WPLPWHPPAPPAHGAPLARPGARARRSE KPPSEKPRLLRSSPRAQEEGPGEPPPEL ALLPPPPPPPTPATPTSSASNLDLGEQRE RWETFQKRQKLTSGCRQAPARHL
5335	13386	A	6176	2	445	RPLPWHPPAPPAHGAPLARPGARARR/CE KPPSEKPRLLRSSPRAQEEGPGEPPPEL ALLPPPPPPPTPATPTSSASNLDLGEQRE RWETFQKRQKLTSEGAAKLLDTEFYQ GLVKHTGGCHCGAVRFEVWASADLHIF DCKYRNYI
5336	13387	A	6177	2	265	FLMESRSVTRLECSSTITAHCNLCLPVSS DSAVSASQVAGTTGMRHHAQLIFVFLVE TGFHHVGGDGLHLLNIVHLP RP PKVLG LQA
5337	13388	A	6178	1	394	WLVGFGFGFFEIESRPVAQAGVQWRNL GSLQSPSKFKRFSFLNLPSSLDYRHTPPS LANFLYLVMGFHHVGGDGLLELLTS PTLASQSAEITGVSHRTQPRSAILLQSQSS LLPLLRTFISSVPVTE
5338	13389	A	6179	3	1306	HEISLGAICAVLLVIMGLFATRCNREKKD TRSYNCRVAESTYQHHPKRPSRQIHKGD ITLVPTINGTLPIRSHHRSSPSSPTLERGQ MGSRQSHNSHQSLNSLVTISSNHVPENFS LELTHATPAVEQVSQLLSMLHQGQYQPR PSFRGNKYSRSYRYALQMDKFSKDS GRGDSEAGDSYDLGRDSPIDRLLEGF SDLFLT DGRIPAMRLCTEECVLGHSD QCWMPPPLPSPSSDYRSNMFIPGEEFTQP QQQHPHQSLLEDDAQPADSGEKKKSFTF GKDSPKMRITLGDSTSSLLSEMSSVFQR LLPPSLDTYSECSEVDRSNSLERRKGPLP AKTVGYPPQGVAAWAASTHFQNPPTNCG PPLGTHSSVQPSSKWL PAMEEIPENYEED DFDNVLNHLNDGKHELM DASELVAEIN KLLQDVRQS
5339	13390	A	618	45	364	HHLHFLQRHKSQMRTMNTGLFEILTMLL TTMNLVDIFHEKADVVDMAYNADFDEY LNCTDRMDIKYVVQLLKEEQASHHH*D TECENA*ARWAARMTHIFLPMDYN
5340	13391	A	6180	21	375	GVSTVGIGRGRLELWAPPEKYTPPGRPS HPLWLWEGGGGSIREDTTSSPHQVPV QSWFDDMGNTLLNLIPFEELNGAKDV YTSL/GAAAGPLDCPAFKRRPFHYGTFFH CAFTI
5341	13392	A	6181	3	471	HASAHASAHQVYVLKRPYVDEFLRGMG ELFECVLFTASLAKYADPVTDLDRRGV FRARLFRESCVFHQGCYVKDLSRLGRDL RKTLILDNSPASVIFHPENAEPVQSWFDD MAYTELLNLIPFEELSGA*DVYTSL/GAA AGPLACPASKRRPSQ
5342	13393	A	6182	1	1953	
5343	13394	A	6183	3	240	
5344	13395	A	6184	1	462	
5345	13396	B	6185	1	546	MVKPLSLQMVPLHSSLGNRGLSENKNT GVWESAASCCMAGCGGPADGICSEPLG HDQDGRAQSLLLWAKLTRKDRFSSQPR SIPSFDFLKAKALAKQRETIWEKVFSFQ AGVLSPPGSATLLSTLEQGAVGQKPPSV PCLMGLFVEHLTTWQLTSSVQASKSKRE DSPETVIAKQKAQSF*

5346	13397	A	6186	1	1846	MWSVPCLENDVLAWTVLCLAVKIKM NKLRSFRRKKDVYVPEASRPHQWQTD EEGVRTGKCSFPVKNWQRLFIQSLAMR SLSASCCHQPAVYSSHGTAQVHAKGCL QAHHRACCPSTSPAAAAIFAAATPDG PLLPSRPLVNLIEKSQALVRETLTSQASA PNSGRAGQPVTVCLS/GANAAWRPALEA PVDTGLWPETQAVSQCLG*EHSACLER KQKREKECGVTATFDASRTTFTREGSFR VTTATEQAEREEIMKMQDAKKA\QTSV N*TAFPRGRTSTTSTGRLWLMGRPASLA RGMSVWMAAAGLSAVITSWTRPSRRTS VCGVGVTARPATPSQAPLTLMTSAEL*R MFVGNNTSMGTGPSRRPGPCQPAPSCI TSGVLRGT/SAPER/PPCPGPTSEPLVI/VA PASAGATAHGVTAAARSVAEVTSPAUCS APSTMRTPTTCASASHGQLTGVPAILTL ARRPSAGLLGWWRWLCMGPQGCS/SP LGPCTRGLQSPPRMAGRQGHGHPAQPP VEEAPSPAPCTASRLTGPASRRPWRRLS VPGCLGSPLPFRPVTCSAVQPGARSPGES VLSVVALASGSGALLAGVKGVLCIPQR APWKTGHL
5347	13398	A	6187	1	1542	
5348	13399	C	6188	539	1039	MPYPAPNPVVGITPSQMVANXFGTAG HPQAAHPHQSPSLVRQQTFPHYEASSAT TSPFFKPPAQHLNGSAAFNGVDDGRLAS ADRHTEVPTGTCPVDPFEAQWAALENK SKQRTNPSTNAFLHVTYRRRLKLNFKQ SLWLCILSIPDREQGVAVKGAKQTLCPD*
5349	13400	A	6189	303	2235	VKIKMNKLRSFRRKKDVYVPEASRPH QWQTDGVRTGKCSFPVKYLGHVEVD ESRGMHICEDAVKRLKATGKKA VKAVL WVSADGLRVVDEKTKDLIVDQTEKVVSF CAPDRNFDRAFSYICRDGTTTRRWICHCF MAVKDTGERLSHAVGCAFAACLERKQK REKECGVTATFDASRTTFTREGSFRVTT ATEQAEREEIMKMQDAKKAETDKIVV GSSVAPGNTAPSPSSPTSPTS DATT SLEM NNPHAIPIRRHAPIEQRLARQGSFRGFPALS QKMSPFKRQLSLRINELPSTMQRKTD FPI KNAVPEVEGEAESISSLCQITNAFSTPED PFSSAPMTKPVTVVAPQSPTFQANGTDS AFHVLAKPAHTALAPVAMPVRETNPWA HAPDAANKEIAATCSGTEWGQSSGAASP GLFQAGHRRTPSEADRWLEEVSKSVRA QQPQASAAPLQPVLP PPPPTAISQPASPF QGN AFLTSQPVVPVGVVPALQPAFVPAQS YPVANGMPYPAPNPVVGITPSQMVAN VFGTAGHPQAAHPHQSPSLVRQQTFPHY EASSATTSPFFKPPAQHLNGSAAFNGVD DGRLASADRHTEVPTGTCPVDPFEAQW AALENKSKQRTNPSTNPFSSDLQKT FEI EL
5350	13401	A	619	112	322	NSLIAGYILVYVKTPRTQKEKSFLKVLST YIKVAKYKV*ILKSITFLFTTKEYSKINIK MPFTTPFTTPN

5351	13402	A	190	795	2728	GLSNFFRGRVQPLLQFKILIYHRLEY WWASNPQTPHLGQAVKIKMNLQRQSF RKKDVYVPEASRPHQWQTDEECARTGK CSFPANDLGHAEFFESRGMHICEDAVKR LKATGKKAVKAVLWVSADGLRVVDEK TKDLIVDQTIEKVSFCAPDRNFDRAFSY ICRDGTTASHGFCRCFMAVK/DTQGERV EHMQ*ICA\FAALFRRARQKREKECGVT ATFDASRTTFTREGSFRVTTATEQAEREE IMKQMMDAKKAETDKIVVGSSVAPGNT APSPSSPTSPTS DATTSLEMNNPHAI HAPIEQLARQGSFRGFPALSQKMSPFKR QLSLRINELPSTMQRKTDPIKNAVPEVE GEAESISSLCSQITNAFSTPEDPFSSAPMT KPVTVVAPQSPTFQTEWGQSSGAASPG LFQAGHRRTPSEADRWLEEVSKSVRAQ QPQASAAPLQPVLPQPPPTAISQPASPFQ GNAFLTSQPVVGVVPALQPAFVPAQSY PVANGMPYPAPNPVVGITPSQMVANV FGTAGHPQAAHPHQSPSLVRQQTFFHYE ASSATTSPFFKPPAQHLNGSAAFNGVDD GRLASADRHTEVPTGTCPVDPFEAQWA ALENKSQRTPNPSTNPFSSDLQKTFEIE L
5352	13403	A	6191	1	1825	MNKLQRQSFRRKDVYVPEASRPHQWQT DEESVRTGKCSFPVKYLGHVEVDES MHICEDAVKRLKAQRKFFKGFFGKTGK KAVKAVLWVSADGLRVVDEKTKDLIVD QTIEKVSFCAPDRNFDRAFSYICRDGTT RWICHCFMAVKDTGERLSHAVGCAFAA CLERKQKREKECGVTATFDASRTTFTRE RSFRVTTATEQAEREEIMKQMMDAKKA ETDKIVVGSSVAPGNTAPSPSSPTSPTS DATTSLEMNNPHAI RRHAPIEQLARQGSF RGFPALSQKMSPFKRQLSLRINELP/SPT MQRKTDPIKNAVPEVEGEAESISSLCSQ ITNALSPEDPFSSAPMTKPVTIVLAPQS PTFQGNEWGHSSGAASPGLFQAGHRRTP SEADRWLEEVSKSVRAQ QPQAPAAPL QPVLPQPPPTAISQPASPIQ GNAFLTSQPV VGVVPAHMQPAFVPAQSY PVANGMP YPAPNPVVGITPSQMVANV FGTAGHPQ AAHPHQSPSLVRQQTFFHYE ASSATTSPF FKPPAQHLNGSAAFNGVDD GRLASADR HTEVPTGTCPVV PFEAQWA ALENKSQR TPNPSTNPFSSDLQKT FEIEL
5353	13404	A	6192	164	282	
5354	13405	A	6193	193	274	
5355	13406	A	6194	3	247	FFFFNRFIAALFKITKIWKQPRCPSVSE WDKLWY/YTIEHNSALKRNLSCPQKM RKLKSILLSKRRQSEKATYITATM
5356	13407	A	6196	57	361	GLTMDTQKDVQPPKIQQPMIVICGECH/ TPENEIKSRDPIRCRECGYRIMYKKRTK RLGRFLMARWNAGEFQREWSPYTLGF GSLPHFWIVCYSFSIFALQ
5357	13408	A	6197	2432	3682	NSLILFFFFFRQSLTLECSGVISAHNL HLPSSSNS/P/ASAS*VAGITGMHRHAWPI CIFLVETGFRHVGGAGLELLTSGDPPAPT SQSM*ATTSGLILLSSKILFPFHSTKVFK* SCPS*KILKEENCVINEWFNSESSYTSKE KNNLVPNAC*EITM*VATNCDFT/SLL*R SENYPKLFHNNETTSQKIHLKIKISRPATS GQWILFSLVWWRARKG*GILMIHNGILY *TIC*IKLHRLP*GMDYPNQPD/MKSGWD KRMSHTL*F*GKEIVDFQNNQKNLSTL YLSVQE**HEEFFFRDLKYNKPGSTIKSL VSF/HSLTLFFFFFFFEARSHSASQAGVQW GNIGSLQAPPGLKRSSYLSLLSSWDYRR VPPHPANFCIFCR/GWGFVSPCCPGSSG

						TPVLKWRANLPNC
5358	13409	A	6198	1	632	KYRQDLTVPPGYCTGEQGAGGRPGETEP WLRPPALLPS\DFLLCASSSGAVLPVRTQ DPFLPYPPRACPGQQAASSATTSRPCPEV KEAGWGSPGHLARHALSHVPPPARVV VLRRERWHFCGDRVLLGSRALRERHLG LMGYQLL/PGEWPWP GPWRILTPSLRVT CRPLLSPQLPFEELESQRG/LCPQLKSYL RQKLQALGLRWGPEGG
5359	13410	A	6199	2	313	EV RVYDLTQYEHCPDDVLVLGTDGLWD VTIDCEVAATVDRVLSAYEPNDHSRYT ALAQALVLGARGTPRDRGWRLPNNKL GSGDDISVFNPPGRARQLLLRG
5360	13411	A	62	994	1108	
5361	13412	B	620	180	372	MAKDAGLIEANGELKV FIDQNLSPGKGV VSLVAVHPSTVNPLGKQLLPKTFGQSNV NIAQQVVIX*
5362	13413	A	6200	401	531	
5363	13414	A	6201	1	864	
5364	13415	A	6202	9	811	YIVTTLRQLGTRGTPGRFIYTALNEPTID YGFQRLQKVIPRHPGDPERLPKEVILKRA ADLVEALYGM PHNNQEIIILKRAADIAEA LYSVPRNHNQLPALANTS VHAGMMGV NSFSGQLAVNVSEASQATDQGFTRNSSS VSPHGYVPSTTPQQTNYNSVTTS MNGY GSAAMSNLGGSPITLNGSAANS PYAIVP SSPTMASSTSLPNCSSSSGIFSFSPANMV SAVKQKSAFAPVVRPQTSPPPTCTSTNG NSLQAISGMIVPPM
5365	13416	A	6203	299	826	LEGHCHNLSSLQISASLGFKRFS\CLTSPS SWDSRNTPPCPANFC/EFLVENG FHHVG QAGLKLLTSSHPPSMASQSAGITGMSHQ AWPTFPVLINFNSLKMCRMC PMATHLG QCPSREYKIHSCSCAELEGQA HHEPDVG VTISIRKCPVPNALWWKELVPGAQGHGP HLEPEGLG
5366	13417	A	6204	1161	2627	RSDATNWGLSHLCFWFWFLRLSFLFS LPRLECNVTISAHCNLFCLLGSSNSPVSA SLVAGITGTRHHAQLI/LLYFFFFLVKTRF HHVDQADLELLTSGDPPTSASQSAGITG VSHCAR/LSHLCFLPPCLLFY/CYFIYVML LCY*WSLFLVAQVG VQWHDLSLQPLPP GFK*FSCLSLLSSWEYRRSPPHPANFFFFF FLRR/RSRFVAQVG VQWCNLDLQPPPPS FKHFSASACRVAGITVACHHAWLIF/IFL YF**RQGFTILARLV LNS*PRDPPPSASQS AEITGVSHHAWPILFIYLRQSL/DSVAQA GVQWYNLGS LQPPPGFKQFSCLSFLSS WDYRRVPPCPANFLCF**RQDFTMLARL VSIS*PHDLPASASQSAEITGVSHRAWPIF CIFI/CFFEMESRSVAQAGVQWRDLGSL QAPPPGFTPFSCLSLPSSWDYRCPPPRPA NFCIFSRDGVSPWSLSPDLVICLPRPPKV LGLQA

5367	13418	A	6205	24	617	DPVSTKNTCMMWWCTPVVPATQEA AREFLENFLSPSTGFECSSLLLLFFFFLSQ GSHSVTQAGVQWCDHGSLQPQPPGRKP SSPLCLSSWDNH/RPANFFYKTTVKSP E/FLQLAVVGCFACARVYSAFQTEKPQH SSSVGLHRSSFEISAFSHFPI*VFVPWSP LQYEEPTLSFPSSSIPHCPTSTSPND
5368	13419	A	6206	239	1789	ATAPGQIFFFFLRWSLTLSPRLECSDAI MAHCNLKLLGSRNPPTSAS*VAKDYST HQQAWLISYFFFIETGFRHVAKAGLKLL TSSDPPAPASQSAGIKRVRHVWPSFSY VNKHLFSRGLRALSYKLG*QMLFFNFL SILSHDFVAVPSCHDHLRSPETCH**CSV THLEGLQVHF*L*DVIPVLIQGVSLNSSSS SFLEESQ*DNLILSREWGSHSNLSYASKVI M*HLTATSSCDTELASASV*VLS*PL*LR LSR*SF*TFLWLLFRDRJIIQIFCLFLKRWS L/DSVTQAGVQW/RNHGSLQPQTPGLGS DTESFFF*ARVSLCHPGLEVQWCNHGSL QASNS*AQVILPP*LPN*LRQACTIMPG* FCF*ILVEMGLAMMPSLVNS*AQ/CNH PVLASQSSGITGMRHCARLGRES*FDPLH *TVCPICNFFFLRRSFALVAQAGVQWR DLSSLQPLPLGFR*FSCLSLLSSWDYGH SLRSANF/CVFLVEMGVSPCWTGWS*TP DLR
5369	13420	A	6207	2	208	LEHALRPSSKMLLKCSQGGTPOEPPNPRI KRASSLNFLNKSVEDPTQHGGQVFLSA ALSAPAPWTSPH
5370	13421	A	6208	1	419	SAFSVAVTKKLPTGAACPIKFTKILMNE GGHYNASSGKFRICGVLIYYFHLAHITL GNKDLAIGLGAQRPSTASGLMPNTGN HDVSGSGSTILALKQGDEVWLQIFYSEQN GLFYDPYWTDLSFTGFLIYADQDDPNEV
5371	13422	A	6209	756	966	
5372	13423	A	621	39	460	GVYLKLSINTVGKDKEKVRRHHPITTQL QCGIQGHNLWVVTAAEIRSFHLSPPSRF RRFKSIFCHVTRSGKSMQMFTFPEKKN DFSGCPVRPRGRGRGEGAVRSAGRRG*A RAGAGPGGPGRGGVPALGRVAPGLVPN
5373	13424	A	6210	24	365	PTEY/ENL/FPCIKEAF/VVEEWVKETLAV L/WPAKQYFPVTPIEERILMEEGKAFFPSR STAKQKLDGNPVSPTPVIGLSPTPNKEE KQPDWPLEPTGHLDGARDTAGPSWLH HRF
5374	13425	A	6211	32	188	KIFFFFFFLPPQFKILFKRPTGLRVPGKGR RALGGSPKGAKKAWPTRRLPSFNGYLE GSSNGASTESPGNFVPGKTLQPPGVELG RGRWTAQQQPSRPVALGA*KL
5375	13426	A	6212	122	339	EKGFWFCAQGGKNLPGGNSLEPSASGL KEIFGLNLLNWE*RGGPKTPGNFWIWK KGGV*PLWPGWG*NPGL
5376	13427	C	6213	56	118	MKALPSSQSCGPTSVNSPFH*
5377	13428	C	6214	345	410	
5378	13429	C	6215	7	438	
5379	13430	A	6216	2	80	
5380	13431	A	6217	3743	4059	GCAVFFFFFLLRWSLLPRLE/CSGTVSA HCNLHLLGSSSSRAAASQVAGTTGMHH HARLIFVFLVEMGFHHVSNS*PQAIHPPQ RPKVLGIIGRDNRLGLMEWSF
5381	13432	A	6218	3	402	DTMVHLTPVEKGAVTALWGKVNDEV GGEALGRLLVGYPWTQRFESFGDLSTP DAVMGNPKVKAHGKKVLGAFSDGLAH LDNLKGTATLSELHWDKLHVD*NFRL LGNGLD*MLAHKFGKKISPNQKGLG

5382	13433	C	6219	295	618	MARKCSVA GPGCTWDNLKGTFAHT EVSLHCDKAAPWIPEELSGSWGNAWS CVLGPFTFGKRISTPPVAGLPNQENWLA WCWLNALGPTS NHLSLAFLAGPISN*
5383	13434	A	622	138	320	GFFQGAQKKRVHPKGGPKSRF*KFFRA GPGGSIWNPHHLGGPGGPNCWPPGFQTP PNNPG
5384	13435	A	6220	2	337	IKKAL*HE*LREKKKSPIRTSQSSKAP*NL PRSSSSSESSNNYQLL*AHKLQVKEMG KLETPNLPLLSQKVAEPLNQPTSSKIET LIKKPYHPEKSYGHDEVTAKFSA
5385	13436	A	6221	1	2349	
5386	13437	A	6222	2	1802	
5387	13438	A	6223	5175	5804	IANNKDALRKTWNPKFTLRSHFDGIRAL AFHPIEPVLITASEDHTLKMWNLOKTAP AKK*EYSTLTLEFYFK*HLSILLYSI
5388	13439	A	6224	3	115	HETDYHKQPWQGEISGIVSTESQ*WGLG GGEVKVKWE
5389	13440	A	6225	2	28	TIADRELRYSEDEGGRRRGE*REEGEA ARRKRVAKQVGKRANEERKTEERWGD REGRRERRSEEMEVS GERGHATSGREE KENTG*GPRAEI
5390	13441	A	6226	1	236	RTRGRTRGSTHAFVRQLMQRNLDTGPI MAGHDNQLQQKENSTPDSSLPETSNEKH ISPENMSLKT LRNSNP*DL YDEI
5391	13442	A	6227	3	178	LFGYLPK*VDNMSTKKPCTWIFTLALCIT ARTWKQPRCPLVGKWIRCSAEALGNRS LI
5392	13443	B	6228	1	1050	MVSISWPRDLPASASQSAGITGLIGALVL SVGIYAEVERQKYKTLES AFLAPAILILL GVVMFMVSVFIGVLASLRDNL YLLQAFM YILGICLIMELIGGVVALTRNQQLLRQ QVLSHTLGCADLSDGPGSGPVKMFMGV PVIPAQPPELLASLRLSRGYGLVLSWLEP RYEKMISGMYLGEIVRNILIDFTKKGFLF RGOISETLKTGRGIFETKFLSQIESDR LALL QVRAILQQLGLNSTCDD SILVKTVCGVV SRRAAQLCGAGMAAVVDKIRENRGLDR LNVTVGVDGTL YKLHPHFSRIMHQTVKE LSPKCNVSFLLSEDGSGKGAALITAVGV RLRTEASS*
5393	13444	A	6229	3	250	SLCQPGWSAVADSRLTASSISQFTPFSC L SFPSSWDYRRLPPRAIFLYF**RRGFTVL GWSRSPDLVIRLSRPPKVLGLQV
5394	13445	A	623	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMTGVASA LSSRYH
5395	13446	A	6230	135	466	GIDTILTLNQON*SLKTRQ*FTLIIF/IFFFLL RWSL/DSVAQAGVQWRDLGSLQAPPRG FTPFSCLSLPSSWDYRRLPRPANFFYF** RRGFTMLARMVISIS*PRDLPAEFL
5396	13447	A	6231	593	1030	KCNNSSLNMNEFKFNPFCKMPNSSLIPL GLSAIKVSNKTNT*NMITI*ILWIIFFFFLI WSL/DSVAQAGAQWCHLGS LQAPPEFT PFSCLSLPSSWDYRHPPRA/NFFVFLVE RGFTVLARMVISIS*PRDLPALASQSLWII L
5397	13448	C	6232	17	145	MHRDLFFNIQFISSVYTSLYLLEKCILCKF SIKTLGLIHTMW*
5398	13449	A	6233	82	377	IPGLKRSLHLSLLNSQSCATLPSYFFFFFF FFFYFLERRDLAMLPRLFSSSPGLK*SLH LGFPEHWDYSHEPPSWLFFFIFFNNRRVF LLNVKFYH MV

5399	13450	A	6234	281	1102	RMNIFPWG...LGHSSQATLTGPPGVC SPPNPRQNKGRPSLTWKS WACGMFSICF FCSVTKTFLKLGP HQRLKSSKTTYAT*DI LKRKVKLCECRPSFLPFFTAWKPLRICW GVAEEGLSSLKEGMLVDSLQPRKPRRCP LPHNRLSTAPTFDPESITDPVTLHPLCP KEQRDPPELPSLGEAPWR*SLPFLHSTPC SLKECETMKPHMCRSPCRGVLTPSATCA QWPDQGWGPVIGAPFSDEVTV CNSQLL LPEAPACSGNQCLS WFKK
5400	13451	A	6235	2	260	LSLTQAGVQWCDHSSLQ*RLSNWDH MHAPSCLAIYFF*ETTSYIAQSYLKHLG SSNPPTSASQGTAITGISHWARLDTSQFG H
5401	13452	A	6236	3	224	KSCPGTTPGNGAGASLEDLWWSRAGR GGTSKPCPLSAGCPLAFGP PARLTGASM PPLSALNG*ERRKRQ PGL
5402	13453	A	6237	3	307	EAWRMSWGPP*ER*PLPSP*GVCSSC/AP PLPSVSAGLGEPRPPDVEDMSSSDSDSD WDGGSR/PFTISTPRPRLGCLLH AVLFL ARW/PSLPSV*PRTPHCEH
5403	13454	A	6238	265	315	
5404	13455	A	6239	359	785	GNPSWSFPKAMDSPSLRELQQLLEGTE C/GDPCPEAW/PGMSWGPP*ER*PLPSP*G VCSSC/APPLPSVSAGLGEPRPPDVEDMS SSDSDSDWDGGSRLSPFLPHDHLGLAVF SMLCCFWPVGIAAFCLAQKVSLCVGLG GDWA
5405	13456	A	624	60	548	APSPDAMGHFTEEDKATITSLWGKVNVE DAGGETLGRLLVVPWTQRFDFSFGNLS SASAIMGNPKVKAHGKKVLTSLGRCHK STWDDLKGTFACLSELHCGQACMWD ENFKLLGNVLTVLAI PFSGKEFHPWR LAGFPGQKD*LGVIASALVPSRYH
5406	13457	A	6240	3	277	
5407	13458	A	6241	8	370	RLGEEKAA TG VVVHGLDCFFSPRAPTRP GSRLSQDPPGCEI*NPSWSFPKAMDSPSL RELQQLLEGTECEDPCPEAWAGIELGSP FKRDSLRCRVPEGFCSSCSPPLPSVSAGLG GTKAP
5408	13459	A	6242	1	351	KTGSHSVAEAGVQWHHPSSL*PQPPGFK QSPHLRFKPCWDHRRTPPCGNFFDLR* RWGSHHVAQAGLELLNSRDP PASTSQA RITAMSHRARPVSTFLSTSTSCPVLSTFH RSLI
5409	13460	A	6243	2	1036	SHTLSYLVKELEVRMDLKAKMPDDHAR KILLSRINNYTIP EEEIGSFLHAINKPNAP IWLILNEAGLYWRAVGNS TFAIACLQRA LNLAPLQYQDVPLVNLANLLIHYGLHLD ATKLLLQALAINSEPLDLF*AGEMAYL ALKNISGALEAFRQALKLTTCPECENSL KLIRCMQIYPFLYNITSSVCSGNCREKTL DNSHDKQKYFDNSQSLDAAEEEPSE RGT DEDPAFVSVENSGRSDALRLESTVDES HGSDEMENSDETKMSEEILALVDEFQQA WPLEGFGGALEMKGRRSRLTRNTGAEE RSPGWKWPETLAMETA EVKMMKQONG LHSRSNV
5410	13461	A	6244	31	372	KRVRLGWVAHTYNPSTLGGQGRIT*TQ EALTSLDNIVRTHLYKKFYKLAQVWAC GQTCLEGGKEGYVNMSNVHTGGQGDPC GLLGSLSLGRIFGCTWDSYRHAAIAMIFG KLK
5411	13462	A	6245	816	929	DRVLLYCPGWNAV*TWLTVASASSAQ AILLPQPCLA
5412	13463	A	6246	3	119	RRGLAVLPRVLNSWPQVIFLPHAPKVL GL*AQL

5413	13464	A	6247	2	285	RSVLCECRNSVVSQIWGNRLYLVMYPIMKVEKWAGCCGSL*SQHFGRLRGVDR LRSGVQQPGQHQDETPSLLKMQKWAGV WWWLPVVPACSL
5414	13465	A	6248	3	437	RPRRLFFLRWSFALVAQAGVQWHDLGS PQPPPPGFK*FLCLSLPSS*DYRNVPPHPA NFVFLVETGFCHVGQAGF*LPTSGDLA WASQSAGITGVSHLARQAASDFNSRDRR GSQIPSNSQDANQNMENLNLKDFPIVT CNT
5415	13466	A	6249	3	459	VLITANLIPAKQCFDCNFLSTFSSVTTEAF VFLCLLVTCVTCMNFLFIHFVHFSRRVV FFLPILGAPCKMGILFMIQTFLPSLNIFQF GSKCIQQYRILNFYAM*SVTLFLWPVIVYK YSFSTISRPTLYNRSTLLPRKDRWKGAR QQTPQ
5416	13467	A	625	32	452	
5417	13468	A	6250	2	342	FKRQSLTLTPRPEYSGTHAHYNLKLCS NPPSSASQEAGTTGTYHDT*LIF*FFVETG SPYVAHAGLELPVSSNPPTSASQSGRIID MSHHIRKTALLSGKEWTRPPHTLL
5418	13469	A	6251	2	207	ARGDPESTVAEFTPTIPHCSMATLIGLPI KVKLLRSLPQSFKVSWS*APGVRPGIEGL LLRMGTGRA
5419	13470	A	6252	1	90	RWLIPISPAL*EAEAGRILLETRSLRPAWS T
5420	13471	A	6253	3	290	RQGFPLCNHKGTVTADLQPLPPGLK*ISH LSLLSSWNYRCTPPHPADF*FFVERRSHY VA*ACLELLCSSDLPALISQRVGITGMST TPGPICLL
5421	13472	A	6254	2	378	AGFTAHVILNHPGQ*SAGYAPVLDCHT AHIACKHAELNEQIDRRSAKLEHGPNF LNSGDA AIDDMDTVKPMCVESFSHYSPF GRFADRD MRHTVAASVIMALDKKAAV AGKGSNSGQKAHKAK
5422	13473	A	6255	3	735	NASGTTLEALDCILPPTPTDKALRLPL QDVYKIGGIGTVPVGRVETGVLKPGMV VTFAPDNVTTEV*SV*LSHEALS EALPG DN/VGAFNVKNVSVKDVRRGNVAGDSK NDPPQEAAGFTA HGILNHPGQINAGYA PVLDCHTAHIACKYAELEKIDR\RS GKK LEDGPKFLKSGDA AIVDMVPGKPMCV SFS DYPPLGRFAVRDMRQTVAVGVIAV DKKAAGAGKVTKSAQKAHKAK
5423	13474	A	6256	328	621	PVFLFCFVLFETESRVAQAGVQWRDLG SLQALPPGSTPFSCLSLPGGWYRCPPPC SANFFCIFS RDRVSPC*PGWSQFPDL MIR RARPLFLKNRKL
5424	13475	A	6257	1	1245	
5425	13476	A	6258	1	248	FDPQPIHIVYVPSHLHHMLFELFKV*YFTI IEILPFKKGLTSYIFISFIIRHKTEASISFPK NASSPPKRKKLYSQCLTKYM
5426	13477	A	6259	1	1456	
5427	13478	A	626	3	570	HSLSGTSEVINKLLVQTAMGHFTEEDKA TITSLWGKVNVEDAGGETLGRLLVVYP WTQRFFD\SFGNLSSASAIMGNPKVKAH GKKVLTSLGDAIKHLDDLKGTF AQLSEL H\CDKLHVDPENFKLLG/NMLLVTVLGN PIFGKEFHPWRLQASWQKQKMAEDGD CSWPVPCSSRLPLSSL AHDGRVFOG
5428	13479	C	6260	63	302	MIYKEKRESVSKEDLARATLVTTITNIGS VARMCAVNEKINRVVFGNFLRVNTLS MKLLGICTGLLVKRSTKSIVSXT*

5429	13480	A	6261	1	2063	MGYGVTAFFWAFSRVLSSCPASKKNE MLTAMDICALSLRCATEDPGVAMGRRP ACCYRYCKNKYPKSRFCRGVPAKIRI FDLGRKKAKVDEPLCGHMSDEYEQL SSEALEAARICANKYMKSCGKDGPHIR VRLHSFHVIRINKMLSCAFRAHASKCFQ NFGNMIYKEKRESVSKEDLARATLVIT NNIGSVARMCVNEKINRVVFGNFLR VNTLSMKLLAYALDYWSKGQKALFLE HEVCVETVNDGQFHSVELVTLNQTLNL VVDKGTPKSLGKLQKQPAGGINSPLYLG AFPWFGMDIGGTLVKLSYFEPIDITAE QEEVESLKSIRKYLTSNVAYGSTGIRDV LELKDLTLFGRRGNLHFIRFPTQDLPT MGRDKNFSTLQTVLCATGGGAYKFEKD FRTIGNLHLHLKDELDCLVKGLLYDSVS FNGQAECYYFANASEPERCQKMPFNLD DPYPLLNVNIGSGVSILAVHSDNYKRV TGTSLLTGCSFEEALEMASKGDSTQAD KLVRDIYGGDYERFGLPGWAVASSFGN MIYKEKRESVSKEDLARATLVITNNIGS VARMCVNEKINRVVFGNFLRVNTLS MKLLAYALDYWSKGQKALFLEHEFGY NIGVIS/SS*DSHTGLSQLHFEREVRRL SL*GFAHVPLALVCGHLPQW
5430	13481	A	6262	2	527	ILAVHSDNYKRVGTGTSLLGGGTFLGLCS LLTGCSFEEALEMASKGDSTQADKLVR DIYGGDYERFGLPGWAVASSFGNMIYKE KRESVSKEDLARATLVITNNIGSVARM CAVNE*INRVVFGNFLRVNTLSMKLLA YALDYWSKGQKALFLEHEGYFGAVGA LLGLPNFS
5431	13482	A	6263	2	186	RNGLRYRQPI*CLIAENFPGLARDIDIWK LETQGVPNRFLNRSSQRQMIVKLSKV K NREF
5432	13483	A	6264	3	180	EMGKGIDSLFNEIIAENFPGLARDIDIWK LETQGVPNRFLNRSSQRQMIVRLS*VKI
5433	13484	A	6265	3	474	GTDVGKVKAHALSHKKLCLKMTQVTT QWLEILQRLCLHDQLSVQHRGLVIAYNL LAADAELAKKLVESLEILTVVGKQEP DEKKAEEVVHTARECLIKCMDYGFIKPV S*TATLRDAGSGPVLRCRVLGWLGSPGESG HLGHIAVTMKSQYKGT
5434	13485	A	6266	2	651	HSERGRQRKRVQKTDTVREKGRERER QTGRE*DRRQTO*DRQGRERDKDR DRDREKERDRQTEKETQREQRRTERN RQREGPSPVAIQCLFFHFLFFSFFLSCIS VCMDVCMYVCMYVCMYVCMYVCMYV YLETGSHSVAQCSAVVRSLGHCSSLRLP GSSHSSPPASRVAGVTGACPTAPDSISYF QVRDGGFTTLARAGLELLTSG
5435	13486	A	6267	56	901	EEIAVSILLPSALPAPATVGPVALVDGL GGWLCQCQAREQPAE*QPGVLVPPGGR ERQGGCSFRGQSLALLSSADFTGPGYK PHLSKENLVKIIQLDKKPQEGVFPTLGV SMRIKGRDCRLSSIRSPRVLSPADRFSMC FPTVKDSVQRTSASAPSSLMIAAEEKC HSSE*PTASGSPQHQTHPGATGPAPLQ VETQYTRLSSGLAGPRTLSESECSKPTL EPKAFWVNKAKFCLCYLVVSPQLIPRH GSDMMSGHTFEIPLLARKGCPRQAVW
5436	13487	A	6268	132	378	YHSQRCRRGVIIVLSKSKARSRRSRMKQ YKNETVKDKGKYHKNVSMISLK*LEKP VRPLELYYYYYYYYYYYYYYQVLS
5437	13488	A	6269	3	397	QRDLTRHISLKSKTGVHLPEPNLSARRI RNISGHRKSETEKESGL*PALRQILNASW RKVIWEQVIQLVS*TTRELRRG*LSVGID DVGVEVTVLVVFLCSSTIVALLCFSYV SCLCPCWCLLSLCSF

5438	13489	A	627	62	281	SGVYFSFVQREKTLTQHLILFGFLP*EYP TLTTFEGEIISKHPFLTRKWDADDEDVD RKHVWSKSDLCWVI
5439	13490	A	6270	2	250	KKARRSGVILAHCSLELPGSSGSSLFSPA SSWDYRSAPPPPSNIFLLF*GRVLTMLP RLASNSWAQAILLRWPPKVLGLQV
5440	13491	A	6271	118	184	QKEKL*KMGAVLKSLCNASIILRNANKC NNRRKSYQPFSSFMNIDAKVLNKI
5441	13492	A	6272	798	1096	KIMLEHLYSFFEAEERSVIQAGVQWRDL CSLQAPPPGFTPFSCSLQSSWDYRHLPP HPTNFFCIFSREDEVSPC*PGWSRSPDVVIC LPWPPKVLGLQA
5442	13493	A	6273	3	163	HASAHASGHASGGAEGKQAEVANQDST EDLPAENGEAKTDDSPASDEAGENDA*S DEAGENDA
5443	13494	A	6274	3	330	INIRFYLSIKASARSTQG*VSSCTKLQIF FFFFFEMESCSVTQAGVQWRNLSSLQPL PPGFKQFSCSLSPSS*DYRCPPPRANFCI FSRDGVSPC*PGWSQTPDLR
5444	13495	A	6275	167	362	SPYGKSNLLEPSASRFKQFFCLGPLNNW DYRLFPPFPNGFVFKKNRVFPFVPSLV* TPDSRGIP
5445	13496	A	6276	2	354	
5446	13497	A	6277	196	321	EQTKAKCPGAHEQVVK*NN*GHHLLSPA HFSHLQLKQFDKMI
5447	13498	A	6278	1	923	MERWRDRLALVTGASGGIGAARALV QQGLKVVGCACTVGNIEELAAECKSAG YPGTLIPYRCDLSNEEDILSMFSAIRSQHS AVDICINAGLARPDTLSSGSTSGWKDM FNVNVLALSICTREAYQVHEGSGMWT GHIN*HQ*ACLATRVLPVTHFYATK YAVTALTEGLRQELREAQTHIRATWQLR REEAAAGYQAATVKLGFCGLHPLPSTS PRPGKAQPLRRPSLLAQCSIPGVVETQFA FKLHDKDPEKAAATYEQMKCLKPEDVA EAVIYVLSTPAHIQIGDIQMRPTEQVTY
5448	13499	A	6279	28	311	AGVQWCRLSSMQPPRLKLSFHLSPS SWDYGCTPPIARLIFVETGFHVA*AGL KLLSLSNLPT*ASQSAGITGMNHQAQPV SIFKSSSFG
5449	13500	A	628	1	395	
5450	13501	A	6280	1	304	
5451	13502	A	6281	62	299	LFFSPQTHPTQTAFLLSSVDLHHCYSQM MLPESVAIVCSPKFQE*V*RAWFWVFQ GSREESLRGKGLYSCGLVLCKIP
5452	13503	A	6282	110	276	QSETLSQKKKKKKKNW/YKCGGTHL/LI QATREAEALLQTG/GRGCSEPLHHS TAW
5453	13504	A	6283	380	507	SMNPGSPVCVMLITRIP/FCIAHAHLRCC MVL*LHHFHFRLSIC
5454	13505	A	6284	14	235	DRVSLCHPGGGGSELRSCHCNLAWVT EQNFVSKQKEKKR*LLYT*LVLPMSDGL HVAQDSFECSSTQICKLS
5455	13506	A	6285	494	789	DHRFAPSHLADFYFFCRDGVVQ*NDLDS WQA*PPGLKDHLPS*DHFRFAPSHLAD FYFFCRDGVVQAGLKLLSSSNVPALASQS AGIIGVNHCTQPTLCLFKMMYLFNFCHH WVLHLPakeipePVFKLPRVFYTPFNCLS K
5456	13507	A	6286	3	107	HIQLCR*LIHTHTHTHTHTHTQFYLFK** HSAC
5457	13508	A	6287	2	214	VDFFFFFFKLDRVSCCPSWKFSG*WL FTRTDHRTLPTQPGIKQSSCLSPSRWDY KCVQHVSSLSPS
5458	13509	A	6288	3	213	LLKQNKH*SRILYPTKLSFMNEREIKSFS DKHMLREFVTRPDLQEMQKGVNLNKT

						KGWHAPE*NEKA
5459	13510	A	6289	1120	1668	SGDALFPLFFLFNFRVTKLRSSLWMHLG KQLPEPPNSRPTVETQKGSS*DT/PPR*SP *ACFHNSLFPRFG*PTLI*QEHLTTCLL/PG DFFFFFF*DRVLP CYPGWEYSAKTMAHG SPNLLE*SSHLSLPSSWDHRRMPLCLAN* KKKKKQQRHGLMLPKLVLSWAQVIV LLWPPKVLGLQG
5460	13511	A	629	27	121	APTPDAMGHLTYED*ATITSLWCKVNVD DSG
5461	13512	A	6290	186	297	PNLG*LNPPPPRLKHFSCGLPSSWNKKA IACHGAK
5462	13513	A	6291	59	132	
5463	13514	A	6292	1	335	
5464	13515	A	6293	1	457	FETRAGSIAQAGVQWCHLGLLQPPPPGL KRSSCPQP*VTWDYRRTPSSPG*FLYFL* KTGCHHVAPGCKLVSSSDLPFLASQSA GITDRHQPPCLGPKLWTLRKLGDIFLW FHDNLGYTLGRNTHEFSTSRAVIITVFRS FKHSTPDFSG
5465	13516	A	6294	76	343	YTFSSFLYFFTFPLDNSKPKIFFFFFFFF FFFKETWIVLIGLNAGYM*TTPOK*EALL GNTITHVTRLAKHSVLLT*IE*VHDSTF
5466	13517	A	6295	362	561	LEHNIFLSFETDSRSVAQAGLQWCNLSSL QLLPPGFKRFSCISLVSRL*KAFCGPPQLLN FTPIVQY
5467	13518	A	6296	3	349	FFLETEPSCSVAQVGVQWPDLGSLQPHL PRFK*FSCLSLSSWDYRHAPPHSANLYI FSRDGVSPHWPGRSQTPDLRRPTLLSLPK RLDYSVSHRAQPWPYFRNKEEARPNPFF S
5468	13519	A	6297	42	266	
5469	13520	A	6298	106	860	RRRRLPSVAIMIIYRDLISHDEMFSDIYKI REIADGLCWEVEGKMVSRTEGNIDDSL IGGNASAEVGEVGEQHS*SLVVDHC HRTYHLAVKASFTKEAYKKYKDYMT INQQGNLQQRPERSKTFY*QGAVEQIK HILA*FQKTTQSFMEVNMNPDGMVALL DYRED/GVVTPYMIFFKDGLRNGKNVVK CGQLFWDLSPVIINWASAWSSTQHGLK TKWGLMVIFELLHFILDWGFIEVAIVF
5470	13521	A	6299	10	281	SRSFFLSFFLFVEMECHSVAKSGMQWRN IGSLQPPPPGFNQFSFLSLPNSWDYRCLP LHLANFCIISRDKVSPCWSAWFSRST*PT PDLK
5471	13522	A	63	547	644	IPGRPWR*LS*PVILRLQPQATSGG*MVR ASL
5472	13523	A	630	128	379	FNSRPSLRIGLFCITCSLWDCFWCCWIHA SLYSVIRSLLSFGTLVCFSLFCVAFLSFSF *VVLFFLLFISSGFFSFVFLVFLF
5473	13524	A	6300	3	111	FIKIHGLPMLPRLV*NSWPQAILLPWPPK VLGLQA
5474	13525	A	6301	2530	4923	TVPHH/AFILFFF/CFFERESYSAQTGVQ WHNLGSLQPLPPGFK*FSCLSLPSCWDC GHGGVSL
5475	13526	A	6302	2	300	GSFALVAQAGVQWWDLGSQLPPPPGPK QFSCSLSLSSWDYRRALPWLANFVFLVE TGLHHVGQAGL*LLTSSDPPALASQSAGI TGVGLASTYFIEVI
5476	13527	A	6303	1	453	
5477	13528	A	6304	305	432	FLHFK*MMNNMGGDEDVDLPEVDGAD DVSLKILFSVYFHTIK
5478	13529	A	6305	3	306	
5479	13530	A	6306	1	122	TRPEFPGRTPPSQKG*GKKEEKPET*KER TGPSEKGETKA

5480	13531	A	6307	2	392	CSCSAEAAASSGAAVPVRCFTFCFTDIVI MPKGKSPENTEGKDGSKVTKQEPTRRS ARLSAKPAPPKPEPKPRKTSAKKEPGAK ISRGAKGKKEEKQEAGKEGTAPSEHGE TKA\EEA\QKTESVDNEGE
5481	13532	A	6308	3	426	AGNSSIQGHGGWTLRHSILSFLSLLPFSR GPQCMGAVQPLVLKQPRDASLRGCLLG YDSTATGLY*ILCNLRRHPGVMPSCGAR VLRDHNPEIDIEWLCSCSLLEVLGSLSSST PGLTLADQAGHSGGIMPLEGSLRSDCC
5482	13533	A	6309	3	372	HAGLGAHPLHHPVIOQEGFLPAPRGFGY RSEVD*IRIPAESTGQNSQCQLRK*KDDSD YFHCGYFCGCVCTCRGRLQSSTSHQCQA AL*LLLPCVCLTMLRCISSLIYT*NLKTVHS VRLNFIYN
5483	13534	A	631	1	371	RQGPQGGRAAPRPPMPGPPLSSARHALP LGSWESWCCCLIPADRPWDRGQHWQL EMADTRSVHETMMQASRKEIQSLPKNG SFPSTNEMRLRYSSYNQASE*P*KLSRP GLWDPIGRAKWD
5484	13535	A	6310	1	230	SGRPFLFFFQKERVYFIPVVVLFYTVVV Q*LRKNVVRWQKTMEPPRSWLMQLGH TEEGPGYPLLGETETKLFRTA
5485	13536	A	6311	2	100	RRPFFFFFFFASCI*NLISPNVQLSNFTCILR N
5486	13537	A	6312	2	192	
5487	13538	A	6313	1	451	
5488	13539	A	6314	231	1335	
5489	13540	A	6315	636	852	FRGSGPRDKTPNCLISLLFSWQPHYFLQR FLYAKLLGLLAELRSINEAYGYIYQHIQG LSAMMLLL*EICS
5490	13541	A	6316	1	690	
5491	13542	A	6317	3	302	GFRGCKPQALAASTWC*LCSCTEVKN*G LGTSTWISEDVRKHLVDVQAEVCKGGA LVDNLCQGSTEKGCGVRAPTQSPQWGT AWWSYQKRATILQIPEW
5492	13543	A	6318	1919	2245	PMQRSP*RT*WS*KPWQENYVMRAQDS VADSINWKKG*QRLKIK*MK*SKKRSLE KKE*KEMNKASKKYGT*MDQIYVGLV YLKVTGRMEPSWKTLCRILSRRTSPT
5493	13544	C	6319	395	1096	
5494	13545	A	632	323	585	SQHFGRTKPEDSLRPGI*DQTGQPRETLF LQNLKKLAGHGGACLQSLLGLRLRWE DRLISGV*GCSDT*LYHCTPAWVTEQDP VSE
5495	13546	A	6320	304	475	PRQTGSGVDLRQTPTDLQLRV*LLEGKI TNRKGHLHQNPICTPSPSKTKGKDQIYV
5496	13547	A	6321	224	1767	HCLSNVSAGLHPFTSYCLLHEKKFKA AVLSLGECCDGDADGGDGSMAKSGP LAAGLLEFAGGPLQTLFAVWSAAEAAE QPILLNSKCCCLIVPLEASSWRGTRPCEVI VSEAGASIYSVSPEANKEMPGLDPNLRS AVSIARRVQDPLAELVKIEPKHIGVGM YQHDVVSQTLKATLDSVVEECVSFVGVDI NICSEVLLRHIAGLNANRAKNIIEWREKN GPFINREQLKKVKGLGPKSFQCCWAFI RNQPGLYPNVLQSANLKLQAKFQGVAV TSSADVEVTNEKQGKKKSKTAVNVLLK PNPLDQTCIHPESYDIAMRFLSSIGGTYE VGKPEMQQKINSFLEKEGMEKIAERLQT TVHTLQVHHRWVFSQPEGFDRTDF**T WIFKEEGIVCLEDLQIGTVLTGKVENATL FGIFVDIGVGKSLIPRNVTEAKLSKTKK RRSLGLGPGERVEVQVLNIDIPRSRITLD LIQGVMSIPRRPDADFISFPQIDKDSVV CKL

5497	13548	A	6322	2	64	AFRFSSSVRLSHTGEKPYECKQCGK AFISSSHFRLHERTHMGEKV*EYKQHSE AFGCSSSF*IHKRVTGQKLCEYKHCSC ALD*SSFF*ARKNSHW*ETL
5498	13549	A	6323	168	499	VCSSAQ*QTCFSLVSPTM*NLIKEFLNN IKFPQQDGTSQALVSGENVDIRKIVGVS GVGSYLGSKIFRLGAVAHTCNPSTLGGR GGQITRSGDGDHPGQQGETPSLLKI
5499	13550	A	6324	165	548	SPSQHSLVPSTPLPGSVLWGGGCLPCAA EGSRSQQGDGWLRRSSVDLAVGDGEGK EVPRPLALGCDLARDGSRTLSPLGPCPKP LGQRWES*ELRKVPGLAPDLSVESAPRS WEAPECQQMLQLSP
5500	13551	A	6325	18	225	TLGLK*SSHLSLLSSWDYRCMPPHLAN* NFCFLVF*RWGLAVLPRLLNSWPSAILP PWPLKVLELOV
5501	13552	A	6326	724	900	MTSFSDFQSFQNRGSTIVTIAHFWSRKY LSDKECS*NACVVFIHSI*KWANTKTFIP D
5502	13553	A	6327	15	185	VPFENPWVDPVRPRVRFFSTGTFRCCA H*IS*LLQSGSSQASLCRYNEESQKHAAL SLSKEHNPTQYEERMRIQKAGGNVR*PR QACVVIMRRVKNMQP
5503	13554	A	6328	199	544	PARLGLEEGRYLITGRGWVWLTPVIPA FWAEVARSQGGQKIETILANMVKPHLY* KYKKKLAGGGGGYL*S*LLGRLRQENG VNLGGGACSEPRSCHCTPAWATEQDSV SKNKK
5504	13555	A	6329	837	1096	
5505	13556	A	633	1	231	
5506	13557	A	6330	454	526	
5507	13558	A	6331	258	488	NTVSTRKYKKLARRSGGCL*SQLLGRLR QENDVNPGGGACSEPRSRHCTPAWATE RDSVSKKKKKKCFQSSILLK
5508	13559	A	6332	3001	3080	
5509	13560	A	6333	6181	6292	
5510	13561	A	6334	3	222	ASVTACRLNCQGCSPCQPFPHLAAPL P*VNPQLETPFP*ARTQRIPLPSG*PGTPS PKPTNHIPLTDPL
5511	13562	A	6335	2	227	FFETESRSLTQAGMQWPNLGSLOPPRPG FKQFSCSLPSRWDRHMPSGLANFCIFS RDGVSPY*SGWS*TPDLR
5512	13563	A	6336	2	218	TWRLAVAQAGVQWRNLSSLQPLPPGFK *SSCLSLPSSWEYRLLPPRANFYIFSRDR VSPCWPGWSQTPDLR
5513	13564	A	6337	31	165	GSHTVTQAGMQ*SNHGSLLQLYPLSLRRF SYLNLPSWDQRSNKEG
5514	13565	A	6338	122	376	KMGPLSSSLPEAECDPDRAATLGMNKM LHSHWVSSIAPVDPGMG*KAASGPDFET GQAEARLSPPSLQESSVWPGDFPHQIC
5515	13566	A	6339	3	268	GRVAVRKEKGSFWLVVFNWLSDLNWPL PPLPGELA*TFLKSSLRPPAPAPRPPPPQT PSPTPRSLAVSSEGWRLLLSMTLESDDL DL
5516	13567	A	634	1	686	ARAGLGFSCGFGVPDSGIGGAMSSFEGQ MAEYPTISIDRFDRENLRARAYFLSHCH KDHMKGRLRAPTLKRRLECSLKVYLY*SP VTKEVLLTSPKYRFWKRIISIEIETPTQIS LVDEASGEKEIVVTLTPAGHCPGSMVF LFQGNNGTVLYTGDFRLAQGEAARMEL LHSGGRVKDIQSVYLDTFCDPRFYQIPS REECLSGVLELVPKLDHSEVPCCVAEL Q
5517	13568	A	6340	2	218	IYTHIH*IDPMFSL*GHMEGEVWGLATHP YLPICATVSDDKTLRIWDLSPSHCMLAV RKLLKGKRLSHLNV

5518	13569	A	6341	1	5748	MPLKLQNC...HPERVLVATGQVGKEP YICWDSYTVQTISVLKDVHTHGACIACF DLGQCSVKAVIDNARRNECGYIPVKLY LQKHSFSLICLPFYSLDFLDINQRLVSVG LDSKNAVCVWDWKRGKMLSMAPGHTD RFWSLCGNALTPKRGVFGKTGDLQTLIC LACARDELTYSGALNGDIYVWKGINLIR TIQGAHAAGIFSMNACEEGFATGGRDGC IRLWDLTFKPITVIDLRETDQGYKGLSVR SV
5519	13570	A	6342	2	252	PPE*LGPNGCQGPPTPLPKFW*ILSKKNG GSPPIIGPGPILKPP*PLRWIPPCPLSPKCL RLPGHKPSAPQEN
5520	13571	A	6343	289	395	SRICPHRDTRKEYNSYTI AFLINLLKFAEL DCIVYFRLNDN*M*IFRCSTIFYNPALAF HILRKPTSF*GRFLLSEMP*MLLLII*I PNYLIQIKRSI
5521	13572	A	6344	262	389	PQVTFSIASRYATILL*FF*PCLVFYSLPN QFYVQGLANA
5522	13573	A	6345	1	103	QSFTYCFESF*NLSVFLYCLYRITN*VYY LYVE
5523	13574	A	6346	7	156	LFSFHVSGTMAHTCNPSTLTG*GRIT*GL EFKTSLGNTVRSHRYRKKKIA
5524	13575	A	6347	94	469	NCTYVIKVNIRHMYTPITAIKIISTRFKI YWYSLIFS*ICIHIFETSLPIAQAGVWC HDHSSLQPLPPGLR*SSYLSLSSSWDYRH TPPCSANLCVCVCRDRRVSPCYGWLLN ILNVCII
5525	13576	A	6348	1	226	FFEMESHSVTQAGVQWPDLSLQPLPPG FK*FFCLSFPSSWDYRHTPPHPAYFCIFSR NGVSPCWPGWPRTPDPR
5526	13577	A	6349	3	308	KDEKGEEDGKEDKNGNEKGEDAKEND DGKEKGDKKEGDKVKVEDEKEREDG KEDEGGNEEEAGKEKEDLKEEEEGKEED EIKEDDGKKEEPQSIV*NCPM
5527	13578	A	635	52	264	GLLVGVGAAAVMPGIVELPTLEELKVDE VNISAALKDACHDYGDEWDKPNVDIM L**LEQLHPSMGQAL
5528	13579	A	6350	1	239	MDGGTEKPFACPV*CTKRYKNVNGIK YHAKNGHRTQIRVRKPFKCRGKSYKT AQGLRHHTINFHPPVSAEIRKMQQ
5529	13580	A	6351	219	688	RRMHAYVSLDPLERPPFFFLFFFLFFFL LRRSFALVAQAGVHWRDLGSPQPPPRF K*FSCLSLPSSWNYRHAPPRANFVFLVE TGLQLPTSGDLPASASQSVGITGVSHCA WPGNWLLKETRCGSSVGRQITGPITPA WVDPGIPDRYLQA
5530	13581	A	6352	3251	3700	KWPYWLKEESSKLLHHQETS*HSNLGN* ASGLRTLPRAEQKE*GMQTSGR*TR* KEALFSITTDQRRPAVGSSSLPAGHLCS QRRRAFTDLRGEDVLADWSMGGYGWP RRGPRIPTLVGRGAHSMATTTDPHRVL PAYHQCSPCI
5531	13582	A	6353	3	347	DAWEQTQDTELVETRPAGDGTGFKWAA VVVPSGEEQRYTCHVQHEGLPQLILRW EQSPOPTIPVIGVAGLVVLGAVVTGAVV AAVMWRKKSSDRNRGSYSQAAV*DSFL VWD
5532	13583	A	6354	3	174	

5533	13584	B	6355	10	720	MAPRTLVLLEAGALALTQTWAGSQSMR YFSTSVSRPGRGEPRFIAVGYVDDTQFV RFDSDAASORMEPRAPWIEQEGPEYWD GETRKVKAHSQTDRENLRALRYYNQSE AGSHTLQMMFGCDVGS DGRFLRGYHQ YAYDGKDYLKEDLRSWTAADMAAQI TKRKWEAAHVAEQRAYLEGTCVDGL RRYLENGKETLQRTDPPKTHMTHHPISD HEATLRCWALGFYPCGDHT*
5534	13585	A	6356	3	223	
5535	13586	A	6357	1	179	RSQVIRHQRIPTGQKSYKCHKC/GQGFSL RSLLAEHQKIH*DN*CTGNEYSKPSSIN CH
5536	13587	A	6358	38	294	LHLMQNRRLHTGDKLHKYDDC\GKAFT SHSHLIRHQRIHTGQKSYKCHQCGKVFS LRSLLAHEYQKIYF*DNSSECNEYSKPSSIN
5537	13588	A	6359	2	244	
5538	13589	A	636	1	380	KHSVCGRARASCSSFASVFLISKMVRE QYTTATEGICIERPENQYVYKIGIYGWRK RCLYLVLGLLLLMILVVNITLTIWLNVTW VSSTSTAPHRV*H*NSLCAETQLQLRLPK RGRHVNFVFPY
5539	13590	A	6360	339	1079	ILSLPLLLAGGTDIISCFMGNHNSLPVYK GEIQARNLGMAVEAWNEE*KAGWGEGS ELACTKPIPCQPTHFWNDENGKNYRKA YFSKFPSIAHGDY*RINPKTGGIVMLGR SDGTLNPNGVRFSGSEIYNIVESFQVED SLCVPQYNKYREERVILFLKMASGHAFQ PDLVKRIRDAJRMGLSARHVPSLILETKG IPYTLNGKKVEVAVKQIIAGKAVEQGGA FSNPETLDLYRDIPELQGF
5540	13591	A	6361	1	1047	MVSISWPRDLPASASQSAGITGLIGALVL SVGIYAEVER/HEI*NP*KCLPGSSHHHP PGRRHVHGLLHWCAGVPP*QPPELLASL RLSRGYGLVLSWLEPRYEKMISGMYLG EIVRNILIDFTKKGFLFRGQISETLKTRGIF ETKFLSQIESDRLALLQVRAILQQLGLNS TCDDSLVKTVCGVVSRRAAQLCGAGM AAVVDKIRENRGLDRLNVTVGVDGTLY KLHPHFSRIMHQTVKELSPKCNVSFLLSE DGSGKGAALITAVGVRLRTEASS
5541	13592	A	6362	2	55	FFLRRSFTLVAQAGVQWRDLGSLQPPPL RFR*FSCLSLPSSWDYRCLPPLLANFLHF QQRFSFTILARLLVSNS*PRDLPASASQS AGITGMSHHACPM*FFFETEFHSCCPGW SAVA
5542	13593	A	6363	167	293	VVKKLLGILLNQMKTKMNF GDFLTVM QKMSEKDTKEEILKSSQFHHQRA*KLF DDDETGKISGFL
5543	13594	A	6364	3	226	FLR*SLAVNQAGVQGRHLRSLQPLPPRF KLFSLLYLPSSWDYSHAPLPANFCIFSR NDVSPCWPGRSQTPDLK
5544	13595	A	6365	1	648	
5545	13596	A	6366	26	612	VGAGGRGWRFAAAVRRAAGGGLRPGP APGPRAGGGGPRGAHLALLRRAGALRA GKEYGKADARWVYFDPTIVSVEILAVAL DVSLALFLIYAIVKEKYRHFQITLCVC ELYGCWMTFLPEWAHPEAPNLQQPATG WLYWLGF TFFF*RCVGFLIPRNWLLWA VHGPRTSRKWHQKGNQFQWKEVFSGT QNP
5546	13597	A	6367	3	292	TPWLRDFHDPIVEVEVSVPFGEPLLSAP GLPEPRAGHSVPSGLSVVAFPSFSSDNVP GSLEHLLVLHFPBGDVSLRPLCLPI*ETF MIPLSRLRCPCSRVSFSPQHQAACLSGL VILSPVASVWLLFHRFLTMSQVPWSIFL FSISPGATCPSCALCAFLSRSEELRSHLCH R

5547	13598	A	6368	237	1202	
5548	13599	A	6369	2	58	PRVRCFIYTGKAPNLDKMADDLLAAAD KVR*EGSKPRQNG
5549	13600	A	637	23	360	LCQSQATLLSIFSQEYQKHIKRTAKHHT SEAIESYYQRYLNGVVKNGAAPVLLDLA NEVDYAPSLMARLILERFLQEHEETSPFK GIINMMLRYPSQIPDGALAY*VYHGK
5550	13601	A	6370	1	1136	MSSGPVAESWCYTQVVHFLFNCFLFFYQ QIKVVKFSYMWTNNFSFCREEMGEVIK SSTFSSGANDKLKWCLRVNPKGLDEESK DYLSTYLLLVSCPKEVRAKFKFSILNAK GEETKAMESQRIAYRFVQKDWGFKKFI RRDFLLDEANGLLPDDKLTLFCEVSVVQ DSVNISQNTMNMVKVPECRLADELGG LSENSRFTDCCLCVAGQEFQAHKAILAA RSPVFSAMFEHEMEESKKNRVEINDVEP EVFKEMMCFIYTGKAPNLDKMA\NDLL AADKYAL\ERLKVMCEDALCSNLSVEN AAEILILADLHSADQLKTQAVDFINYHAS DVLETSGWKSMMVVSHPHLVDEAYRSLA SAQCFLGPFRKRLKQS
5551	13602	A	6371	21	358	GCRHSASCAAPRALGPAPARQR*PKAGR VFFERTS*T*G*PAPGRRHPGPRIGRRR RSGCSRVRSSVRDC/PSSRSKASNPLSL SSSTAGCDGARPPCSV*RWSRFPGARR
5552	13603	A	6372	1	1458	SLPRNLPVTIISQDFGDASPRNGQEADD SSTSESPEDSKYFLPYHPPQRRMNLKGI QLQRAKSPISLKRTSDFQAKGHEEETD ASPSSCGSLPITNSFTKMPPRSRSSIMSITA EPPGNDISVRRYKEDAPHRSTVEEDNDS GGFDALDLDELAAGETVAQSPPGVPCQP PLFQGSPLCQLRLPTDETKDEWSSLMG KHQRYQVLKRDDSHERYSGPSSIHSSSS SHQSEGLDAYDLEQVNLMFKFSLERCR NRGPQRKGLAKAMQHGRGKEVGPRYP AVPIHDTVEPDPSGLRSPLWGTCGAQGP RCSTRR*MATASPPSSPCWGATREGASC TRSSLALWPRKPASVRATSCCC*KAASE ARGRVSRWTHAPKRKPTGPSRGAAAPS RCTKGGQPRSPAENPWACRI*CGQHLQSP ELRSSTALQVWNSRERKFIPAGVPEAGE GHGGRPDHIGGLVLHPAEPEHLQPAGRL HHVPEV
5553	13604	A	6373	103	226	CCFEILKLMKILISEMHLMLFFL*QLRKS A*IPYVPELFLS
5554	13605	A	6374	112	303	
5555	13606	A	6375	3	109	AWKFFFYFILLFFLEKHHFYVQ*NISL A*KKKK
5556	13607	A	6376	22	175	THDHVSVYFFFLGLKSTEIQC DIKMQIFL FI*VENHLPVSIYILKYFLWIL
5557	13608	A	6377	1596	1878	TMSDTTFKALR*QLPVRTKIDWNKILSY KIGKEMQNA
5558	13609	A	6378	394	626	SDSVNPQLRVFKILN*SLGILKTHIQIKLF FFFFSALTALGTLVCVSIYLYGLPRQD TTSIQQGETASKERVIGV
5559	13610	A	6379	2	101	KTLVPLILPIITTLANPCKKD*YPPYVKISI AC
5560	13611	A	638	1	77	
5561	13612	A	6380	1	297	SRFKRFFCLSLPSSWDYRHAPTHALANF VFLIETGLHVGQAAGLKLTT*GDLPALAS QSAGITGGNHCTRQVQCFFRCWGYTRES GQKLDPARVMFENK
5562	13613	A	6381	1	394	TGTHFHFYLLLVLLFLEMGPQSITQADV QGHNHSSLQPQTPGLKQSSRLSL*NSWD YRHTPPHPANFFRIL*RQGSHYVAQG*SQ TPGLKQFSRLGFPKRWGYRHESPHMAR DRYSYCPHFDEETGDPER

5563	13614	A	6382	3	160	QL*WSHLLQRYSSCNV**KRRGLIR TYGLDMCSQSLCQYAKDIGFIKLD
5564	13615	A	6383	1	1240	
5565	13616	A	6384	3	3129	KLGSMEPAPARSPRPQODPARPQOEPTMP PPETPSEGRQSPSPSPTERAPASEEEFQF LRCQQCQAEAKCPKLLPCLHTLCSCGLE ASGMQCPICQAPWPLGADTPALDNVFFE SLQRRLSVYRQIVDAQAVCTRCKESADF WCFECEQLLCAKCFEAHQWFLKHEARP LAELRNQSVREFLDGTRKTNNIFCSNP HRTPTLTSIYCRGCSKPLCCSCALLDSSH SELKCDISAEIQQRQEELDAMTQALQE D
5566	13617	A	6385	2	416	ACCLLYRGDMVPKDVNAIVTIKTKRRI QFVD*CPTGFMDGINYPSTVVPVENLD KVQRAVCMLSNTTAAIEAWARLDHKFD LMYAKRAVHWYMGAEEMEEGEFSDAR EDMAALDKDYEEVDADSVQR*GDEDGQ EY
5567	13618	B	6386	95	412	TNRSIQFGDWCPGFKVGINYQPPTAVP AGDLANVQRAVCMLSNTTAAIEAWARL DHKFDLMYAKRAVHWYVGEEMEEGD FSKAREDMAALEKDYEEVCVDSVE*
5568	13619	A	6387	2	614	
5569	13620	A	6388	151	1605	RGKTLRGLWRFGKIPTHSENMRRECISIH VGQAGVQIGNACWELCYLEHGIQPDGQ MPSDKTIGGGDDSFNTFFSETGAGKHVP RAVFVDLEPTVIDEVRTGTyrQLFHPEQ LITGKEDAANNYARGHYTIGKEIIDLVLD RIRKLADQCTRLQGFLVFHSFGGGTGSG FTSLLMERLSVDYGKSKLEFSIYPAPQV STAVVEPYNSILTHTTLEHSDCAFMVD NEAIYDICRRNLDIERPTYTNLRLIGQIV SSITASLRFDGALNVDLTFQTNLVPYPR IHFPLATYAPVISAEEKAYHDQLSVAEIT NACFEPANQMVKCDPRHGKKMACCLL YRGDVPKECHMLAILPPSKTKRTYPCF VDWVRPSGFHRCGISTIQP/PTLLVPGGD TGARYQRSCVHC*ANTTAAIEAWARLD HKFDLMYAKRAVHWYVGEEMEEGE FSEAREDMAALEKDYEEVGVD/VEGEG EEEGEEY
5570	13621	A	6389	1	251	CLKEISFLNGSLTPGA AVKSWLTATSACS FKGFSCSLSSSWNYRCAPPRPTNFCIFS KDRVSLFLLFSLFLPLLARLVNLY*PQV IHLPTWPKVLGL*AAVKS WL TATSACS KGFSCSLSSSWNYRCAPPRPTNFCIFSK DRVSLFLLFSLFLPLLARLVNLY
5571	13622	A	639	34	421	
5572	13623	A	6390	3	445	RLFFFFVFLVEMGFCHVGQAGLKLVT CDPPTASQSAGIAGVSHRA*PNTSLK*K LTDSKSPGICFFVCFEIES
5573	13624	A	6391	2	176	CKFAHGNAELHEWEERRDALGMKLNK ARKDHLIGPNDNDFGKYRFLFKDLN*YA GFYV
5574	13625	A	6392	186	374	
5575	13626	A	6393	872	1122	LRPWKPLCSSVERLWLPVELLP PPPAG VLPQPSAQYGERRTFGLTCQGGPGTRAG PSMGCTGYT*RVSIQV ASGPFFHWPL
5576	13627	A	6394	3	415	ERLWLPSVELLP PPPAGVLPQPSAQYGE RRTFGLTCQGGPGTRAGPSMGCTGYT*R VSIQV ASGPSPLASRMVQRGWLGPV LLPAAALGDMCAHLASSPCSPLLTVPR ASQVPPKELDPISPCSLRPRKVS GP

5577	13628	A	395	3	349	VSVVEFLCSKPAQWSHLAQHQLLHTG EKPPFCLECGRCFRQRWSLAVHKCSPKA PNCSPRSAIGGSSQRGNAH*KGKDCLSRF HFMEGPRKGKEEPQVIQGRVRTKPGSPA AQS
5578	13629	A	6396	2	352	EGAAPSSGGPLRDFWGFPRNTNKPSCSGT G*SLQRICWMASLAPPGPAPRGQAPHTH RPLGRPSRGAQVQPAAGQATSKQSP GPGFWSQLPQDLTTASVSPSVNGASKAC LECKS
5579	13630	A	6397	2	361	GGEDPPALCRKPTAQTQTGKKHSGTAA VRSRERHKEVRAGHSLSDSPSLPPI LSPVHQCDVTRVDPIPSLLTALLWLPSAP K*RSEPHKPGVGDVWSAPPTSGEDLILL ATSAH
5580	13631	A	6398	11	967	GSWSGLGARPPGGWNYTGSKKLSPGGE AL*MKRSKELITKNHSQEETSILRCWKCR KCIASSGCFMEYLENQVIKDKDDSVDAQ NICHVWHMNVEALPEWISCLIQAQWT VGKLNCPFCGARLGGFNFVSTPKSCGQ LAAVHLSKSRDYOQPTQAGRLMRPSVK YLSHPIVQSGCDKEALLTGGGSENRRHR LLNMARNNDPGRLEALCLEVRPTYFE MKNEKLLSKASEPKYQLFVPQLVTGRC ATRAFHRSKSHSLDLNISEKLTLLPTLYEI HSKTTAYSRLNETQPIDLSGLPLQSSKNS YSFQNPSSFGS
5581	13632	A	6399	105	465	SRAYCSLTLDFFGLKQSSHLSPQVAGPT GACYHAWPIF*ILAQMRSHYVARAGLEL LSSRDPPASASQSAGVTGISHHAWPVLL LYLAGTQSPHFYDGLDNVSSCLHANF SSLSYST
5582	13633	A	64	647	885	TGNLQNGRKFSQPTHLTGK*YPESTMNS NKFTRKKQTTSPKSSSPQRRTHRQRPW GSSQPLPAHSASPRGSCSQHMF
5583	13634	A	640	3	345	DAWAWPLNRGFFRMMMDIGAAGVMQ GGDSVELLDIPILKLPDGS DIPILLGRL GFHPLKNTVCYGHLDVQPALEDGWD SEPFTLVERDGT LHGRGSTDD*VPLAGW INA
5584	13635	A	6400	1	462	HKSDGSTVSPMMAQTNKFNYTEFTTP DGHYYDILELPYHGDTL SMFIAAPYEKE VPLSALTNILSAQLISHWKGNMTRLRLL VLPKFSLETEVDLRKPLENLGMTDMFRQ FQADFTSLSDQEP LHVAAQALQKVIEVN ESGTVA\SSSTAVI
5585	13636	A	6401	3	569	NQASLSFLHLPYSGHLIRGTPGRGWGK VGAASQRGPRLEQPLAACRFSLETEVDL RKPLENLGMTDMFRQFQADFTSLSDQEP LHGPOAL*KVKIEVNESGT VASSSTGESG SGEAPRVSPSPFRITGPQTRKGPRSPGT EQLCLCSAITHSPVSPGKRAWDHGT FPRLMAPKFPDCEKAS
5586	13637	A	6402	3	194	FFFFTCTQMFITALFITAPNWKQPRCPSIG Q*TNLFNEAVLSREESIKTKTRDRCYHM DRISK
5587	13638	A	6403	2	223	EMESCSITQAGVQW*DLSSLQPPPGFQR VSCLSFSSWDYRYLPRLANFCIFSRDG VSPC*PGWSRTPDLR
5588	13639	A	6404	2	247	RLFFFF/CFEEMESHSVTQAVVQWRDLG SLRPPPGFKQFSCSLSSWDYRHTPPH PANFCIFSRDGVSPCWPG*SRTPDLR
5589	13640	C	6405	65	211	MSPNWRWGPPCLATPQGVTPSDTQPCQ ALGLGPHPRNVQPIIISGTG*
5590	13641	A	6406	1	112	GGRGCNQ*SRHCTPAWVTKQGPISDIDI LIRPPLTI
5591	13642	A	6407	259	380	GCVQQGVNVQHCAGQQHL*ENGPGSS DCGWHRGHPLCRL

5592	13643	C	6408	5	160	MGFEGGPKIWKFKKVXQXSCLXKG QXESIFLNTXKVIRAGDTXKSVLG*
5593	13644	A	6409	117	207	KKTMFRQKLFYKRKQLQKGPRP*GAGF KV
5594	13645	A	641	1	1254	
5595	13646	C	6410	155	394	MLKWIYRIFVNLFLVFVRFFNCSFLCAEC ISLPGQECGGAEVSSFSRTFPQHLLSLYL MXXXXXXXXFLQALGLCYPQ*
5596	13647	A	6411	68	547	LDNRCERCLTEGGWLTSTHTAPRGKGTW GQKKEPASWGPWGCQW*RGAWPTGC KQGRGGSPSPQLGSGGRHEPGQAKATK ASPSQGECDKGRPRQQGPSWRSKSSPRPI SDPPTPGGDKGPSSTSLRL*TRLEPDLSV LGISAGPTRWTLLSAVQLQ
5597	13648	A	6412	11	321	KNFYLF*DGVSVAQAVQWRDLGSPQ PPPPGLKLLSCLSLPSSWDYGHVPTMPG* FCTFSRDGVSPCWSSWSRNSRISDASACL GLPKCWEFTRRDNAPS
5598	13649	A	6413	17	237	YVAQAGLNLASSQSSCLSLPKHWDYE CEPLCLAFFFL*RGGLAMLPRILPKISI SIRWRNGQKKMHQVL
5599	13650	A	6414	806	1680	AMGIHCITTTTERTSMPTTSAAVLPGPM RQWQLQLPPCIITQSRPCSCHKSRIQPW PVTSPPLSIPTIDTCCRQPELLPQLLQ QPLLLLQLPLHITGGIGAPCVLQPS LLERATVTGMRVSCPKLQQPRGILCTTW PGMSGSSMPIGRVTATNAKARCRHAAD TALPAASASCVGTTAACWAAAWASAT TGSCACCFMPPASCSTSLCCWALHCRP CCEPTRPSTWLPSSCFPGSC/CRDHCRL LGRCVGFNGYRPFLL/SSCRR/PSCSTS LCCWALHCRPCCEPTRPSTWLPSSCFPGS CCSQPHCP TTLWSTLPLSHGRLWLQSQ TLSSPWALWKS RVSGSLH
5600	13651	B	6415	61	516	MTTLKKNLADDDAVSCLVLGTENKELL VLDPEAFTILAKMSLPSVPVFLEVSGQFD VEFRLAAACRNGNIYILRRDSKHPKYCIE LSAQPVGLIRVHKVLVVGSTQDSLHGFT HKGKKLWTVQMPAAILTMNLLEQHSRG LQAVMAGLANGE*
5601	13652	A	6416	360	861	RCGSFLQLLLPMPKPADTALPAASASCV GTTTAACWAAAWASATTGPSCACCFMP PASCSTSLCCWALHCRPCCEPTRPSTWL PSSCFPGSCCSQAELWHSPLWPS*RTRA WRVRCCAGLGCCSMGCCCCGARPHGSG LGASTPMTWVPATTCRQPWAPARLGP
5602	13653	A	6417	2	263	NPRDGPTTAACWAAAWASATTGPSCAC CFMPPASCSTSLCCWALHCRPCCEPTRPS TWLPSSCFPGSCCSQP*SPLSSCKPLKPPV F
5603	13654	A	6418	18	211	NEPRASTLTSSKAGQRQAPWTLFPNSYP L*EYPPANPFQGGPHDCRAQTKDMGAQ APRVPEAGP
5604	13655	A	6419	2	548	NGFRGAHSQCPPACVLPQAMSTGGRRQ LPHPCMNPPSPGDSMDAVIKGAAYDLG GTWKGAKPLGLWHCGG*PIENRAGAGE T*SLHI*TPVRSFGFLGTSPMGSPGALKN HGSCARPLLSPLPYPPKERLPPWHLQS EDLPPRGPEALMPQELGLERC*YPLPQV PRFRGTGAGLVQA
5605	13656	B	642	52	554	MGKEKTHINIVVIGHVDSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFYA WVLDKLKAERERGITIDISLWKFETSKY YVTHIDAPGHRDFIKNMILNHPGQISAGY APVLDCHTAHIACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPI*

5606	13657	A	6420	368	623	LVCVFFFF*EKESCSVTQAGVQWCDLG SLQPPPPRSKQFSCLVLPSSWDYRHTPPC LANLCLIFKSRNPXYFIFIPFNCYEW
5607	13658	A	6421	42	179	
5608	13659	C	6422	28	219	MQILLKSKPKGSTKXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXFRCHD*
5609	13660	A	6423	2	161	KNLH*MESYSVAQAGVQWHDLSVQPL PPGFKRFSCFSLSSWDSRLYFRCHD
5610	13661	A	6424	363	750	REQDPACAWSSS/APNSSWSLHGEAVSH RECLSSPVLPGPDSSKALSSAAAALSMSS GRGGSLVPFSGPVSGVARWIASCVAGE SCLA*AGTRTRCTAPSEAT*SSTRGLSRG AASLAASVHHGSRMSL
5611	13662	A	6425	890	1879	LWGLVTSSCLSFSRRNFTTEIFQEDLMLS DPLNLLSLVMWLCTLWTSALSMSSG RGGGSLVPFSGPVSGVARWIASCVAGES CLA*AGTRTRCTAPSEAT*SSTRGLSRGA ASLAASVHPGSRMSL*VAGKPKGPGPTE AAPSCRSSSITTCTPLTLSSSSTADRAL KASPGLSLRGPSSGGELCARLSPSSSGM DTFPCLSPTSSWRRFNNSLLALARPRA ASAKPTALSTRW*ITCRSCSEL*TAKPCP VTVMGVLGGGFPPWEPVLPPLVSLQA QQQHLASLPFPFSMRMVRGAQAPSCR RLPRARGETPPRLPSGSR
5612	13663	A	6426	8	363	AEVQWRNLSSLQPPPGFK*FLCLSLPRS *DYRLAPPCSANFCMVKTEFHVGVQV LELLASSDPPPALASASQSAGITGVSHA WPRASLLSLVIALKQASFFCSHAKQVS QHFTN
5613	13664	C	6427	87	287	MIFFSFCVNTWCHSPFCATVTEYHSLIXX XXXXXXXXXXXXXXXXXXXXXXXXXWGLF CCIITQRKVEG*
5614	13665	C	6428	11	328	MHMYGXXXXXXXXXXXXXXXXXXXXXRI SEHILCIFRSNYRMIFFSFCVNTWCHSPFC ATVTEYPRLIXXXXXXXXXXXXXXXXXXX XXXXXXWGLFCCIITQRKVEG*
5615	13666	C	6429	76	276	MIFFSFCVNTWCHSPFCATVTEYHRLIXX XXXXXXXXXXXXXXXXXXXXXXXXXWGLF CCIITQRKVEG*
5616	13667	A	643	36	695	
5617	13668	C	6430	7	324	MHMYGXXXXXXXXXXXXXXXXXXXXXRI SEHILCIFRSNYRMIFFSFCVNTWCHSPFC APVTEYHRLIXXXXXXXXXXXXXXXXXXX XXXXXXWGLFCCIITQRKVEG*
5618	13669	A	6431	1	336	FFFFFRQSLVAQAGVQWCDLCSL*SPP PTLSTPLASASQVAGTTGAHH*TGIIFFVF VETVFCHVAQAGLELLGSSDPPASASQS AGITATVPSLL*LFIKQKQKQNR
5619	13670	A	6432	3	1105	
5620	13671	B	6433	52	936	MAYLKIQKYEEAEKDCTQAILLDGSYSK AFARRGTARTFLGKLNEAKQDFETVLLL EPGNKQAVTELSKIKKELIEKGHWDDVF LDSTQRQNVVKPIDNPPHPGSTKPLKKVI IEETGNLIQTNDVPDSTTAAAPENNPINL ANVIAATGTTSKKNSSQDDLFPSTDP AKVLKIEEVSDTSSLQPQASLKQDVCQS YSEKMPIEIEQKPAQFATTVPPIPANSFQ LESDFRQLKSSPDMLYQYLKWLSSHQ DNTRAQRLEKAGWQLAFLRYYYHLLDV QKITVCMWQKAF*
5621	13672	A	6434	1	309	LPPIPADSFQLESDFRQLKRSPDMLYHD* KQIEPSLYPKLFQKNLDPVFNQIVKILH DFYH*GKKSPLLIFEILQRLSELKRFDMA VMFMSETEKKIARGII

5622	13673	A	6435	1	936	
5623	13674	A	6436	1	1023	
5624	13675	A	6437	602	744	TPASLKIPVE**NTLLAKMVSIS*PRDLPA SASQSAGITGVSHRARC
5625	13676	A	6438	1447	1931	RKVFKWLSAPLDVSNCPSLCKD*W*RV* RFMPETFFPAR*GAENPTLPCCCHYSIN/HFT VFSFLF/IFFFWR*SLTLVPQAGVQWRDL GSLQPLPPGFKRFSCLSLPSSWDYRCLPP CLANFLYF**RQGFTVLARMVSIS*PHDL PASASQSAVFSYLIFFLPY
5626	13677	A	6439	1	74	FWRPVRROQSEYKQVNGQDSTFPI*CLQ TNTDYRFRVCA*RRCLDTSQELSGAFSPS AGFVLQRSEVMLTGDMGSLHDSKMNS MMPTDEQIAAIALGFATLAILFGFI*QSE YKQVNGQDSTFPI
5627	13678	A	644	62	1548	PLKAKMGKEKTHINIVVIGHVD\TGKST TT\GH\LIYKCGNDKRTIEKFEK\EAEM GKGSFKYA*VLDK\K\AERERGITT\DISL WK\FEDQQVLMWTI\DCPRDTETFIQKHD LQ\TSQGLAWFGGPPFWGGSPLIVCCW CLVEFESWYSSKHWGRPREHALLGFTYT GVWKQTKLFGVNKNWIST*GHPTAQKK ILKEIVKGKSALTLRKIGYNPDTSSILCPIS GLNGDHMPGAQMPNLPWFKEWK\TRK DGNASGTTLLEALDCILPPTRP\TDKPLGL PLQDVYKIGGIGTVPVGRVETGVLPKGM VVTFGPVNVTTEVKS\SEMHEALGEAL PGDNVGFNVKNVSVKD\VRG\NVAGDS KNDPPMEAAGFPAQV\ILNHPGQISAGY APVLDCHTAH\ACKFAELKEKIDRRSGK KLEDGPKFLKSGDAA\IVDMVPGKPMCV ESFSDYPLGCF\AVRDMRQTV\AVGVKA VDKKAAGAGKVT\KSAQK\AQKAK
5628	13679	A	6440	2	174	FFFIFFLLENLF*PSNFGSYKPVHCCVFF CCCCFFLA\FFFVCF\FFFSFSLFF
5629	13680	A	6441	1	271	PPRFFPEFFYSGPPKPPFFKTPVFLGVKPG VSSPPYQK\KPTNFGPKMGAL*RIPLFET PIWVFPKGFHKKKPPV\LN*PPTRKPPPD KI
5630	13681	A	6442	3	128	FFNKKPPPFGRGWPF\LPATLRF*G*KIFF PPPPPEVRFP
5631	13682	A	6443	1	154	LVWS*EASKIPGGAEAAHPPTTF
5632	13683	A	6444	2	230	FFESGSRSVTQAGVQ*HSLGSLQPLPPR FK*FSCLSLPSSWDYTHVPTRPANFCIFS GDGVSSCWPGWSRTPNLR
5633	13684	A	6445	70	550	NQVIWESFQAGRHHGHPFAPSLAPSASSF LSSFCPSGKAEETLESI*SSGKPGVGEGAT SLFPSIS*MFWEGPENG\TQEPAGMPIPHT PPSCSNPAIHSPGGTGAPGRREEALHCPP *HIPSHPPSRPPWLAPLSLRF\FTPM\AVN DQDRSHVCFPLGLI
5634	13685	A	6446	77	485	NLVYVSSICFTWTFHFERKKFYVSHIVLY KVASPIMKCLYCHSGHTQVVQYLNGEA ARLGQGLLC*NVIIFICLLSLSLFFSFFG PMLKM*N\VFVK*CFYNFIRKPKFVFFVTL DFNSLYIGTSNVITVLNKFH
5635	13686	A	6447	3	349	KVEDPSPVWRNSIFWK\FVITFKVYFFCLF VFLETESLSVVQAGVQ\WHSLSLQPLPP GFKQFSCLSLSS*DYRCTPPRPADFCIFG RDGVSPYWSG*S*TPDLMLCP\WLPKVL
5636	13687	A	6448	1	189	FFF*IGPHSVAQAGVRWCDLGSCSLNLP GSSDPPASASQVAGTTGVHYYTQLIFKFF JEMRAP
5637	13688	A	6449	2	304	LDTPLGAAPAAFFLPSLNQCLIYNPMPVR PLKAWRLKTGILTEPRVKGEALGAGMM PTGVSTASSPSYPLAPLGPRLPLQDCMH QALS*APLSDALCIAL

5638	13689	A	645	2281	2431	KLFFLKNVLLNFFLPLLPSPVLVCYCCF SFFFLYLCLFFTIVVLGSARNK*KLFFLKN VLLNFFLPLLPSPVLVCYCCFSFFFLYL LFFTIVVLGSARNK
5639	13690	A	6450	21	359	SLLQSPAFFSPAFCGLL*PSVVQPSPAFS SLL*PSPAFSSLL*PSLLWPSFSGLL*PSLT FSNLL*SSLLPSTEETPAGQRQELQLFPV GGAADAYFPFKCFKILSSECLK
5640	13691	A	6451	2	170	LSLLSS*DYR*APSQLANFSIFL*RWGLA VLPRLVSDSWPQMILLPPVPDVLKLA
5641	13692	A	6452	3	112	
5642	13693	A	6453	4041	4215	
5643	13694	A	6454	3	309	PPPPK*IL*RAPNPPLSSSSFSNPPTWGP QPPPSKFSKFARFPFLPPFPFKKEPPSSSL FFPTKEGTVI*KNPPFSGFQSPDSIK*GRV EPPGGTKRG
5644	13695	A	6455	2	439	RTSAREKRDLNRLKKLGDSSKNSDC*SV SSNTDADATQEKNNATSNRKSSVGKK NSKSRTLTRQSMSRIPASSNSTSSKLTHIN NSRVPKKLKPAKPLLSKIKLRNHCKRL EHKNASRKLEMGNLVLKEPKVVLNKL PHKKR
5645	13696	A	6456	1	146	
5646	13697	A	6457	59	431	PTAMAEEGIAAGGVMDVNTALQEVLT ALIHDLARGIREAAKALDKYVYQSQYC GFLOPEQNCHPREGMEFMVLAQKF*M ASVLPET*EKVRAHLCLVLANCDEPMY VKLVEALCAEHQINLIKVDNKKLGEW VGLL*ILWVLATGTLPPKGRRHGVHGV SAKVLNGIRPTGNLKGAKPIFVCLHPT VMSLCMSSWWRPFVLTNKST
5647	13698	A	6458	242	431	
5648	13699	A	6459	65	473	PTAMVEEGIAAGGVMDVNTALQEVLT ALIHDLARGIREAAKALDKRQAHLCLV AFNCDEPMYVKLVEALCAEHQINLIKVD DNKKLGEWVGLCKIDREGKPRKVVGCS CVVVKDYGKESQAKDVIEEYFKCKK
5649	13700	A	646	203	371	HTDIYPNGPRTNEPTAHELIG*H**PSHFR T*VEQYNINADLKS*YQHSMDRMLSG
5650	13701	A	6460	32	485	HLVLASLLACLASIFLPSVGLGQCCLVGS QKTIPRNEGLPRKQTFSLDLLPSCLWFP YSPRLAIKTTIPLHQKPAKPKNTLTFL FLSV*NWAIGKLFGLSL*GQEGPPFQR ESCAI*GRKECCAKRPKRILTDRPRWVPH SVYQH
5651	13702	A	6461	3	336	FFFFDIGSCFFA*AGVQWHDHGSQPP GLK*HDIPTTAS*VAGTTGAHHHA*LIF* LSVKMGSSPLVAPGWSMKSWTQANPSL LQPPQSAWDYRCEPPCLVRNTEFYV
5652	13703	A	6462	2	280	VLGIWRVPGGSGKMEKRESEKQILPRPIG CIWERGKSPGEAPSALPMPWSNPPPGTC TPSCPTYRCTPLPR*TDAPSRHHTLAPRN GETIFA
5653	13704	A	6463	1	171	MWGWKEKIKINTFVYCWWEFKLVQNF WSTTWQHILKF*MSFDALLGIYPKYILT VT
5654	13705	A	6464	21	402	
5655	13706	A	6465	42	266	
5656	13707	A	6466	60	656	RRRRLPSVAIMIYRDLISHDEMFSDIYKI REIADGLCLEVEGKMVSRTTEGNIIDSLIG GNASAEGPEGETESTVITGVDIVMNH LQETCFTKEAYKKYIKDYMKSIKGL QRPERVKPFMTGAAEQIKHILANFKNY QFFIGENMNPDMVALLDYREDGVTPY MIFFKDGLEMEKCVSTRKWVKINNVKK TF

5657	13708	A	6467	176	552	MRSSKQMK...PRCSSITVLSVRGMVLF LTLACPRFKMSSRTDFRFGNPQVT*GSTI CSIFRLPSILSMRTTK/DQGMFIWQFQGM RFHF*SSEHLVTFLLPPGIM*E*FQSLKPE PFSFLLSCYCH
5658	13709	A	6468	98	507	RATEKWKGRKNHELSSWKCFPLKIFFRRS LAMVLCTSKLRPSVLSMRTTKARECLSG SSNA*GFTSSRLRHSLSRFCARNHVGMI PVA*T*ALFLSSAPSLPKMPALPGWLCGL DKPSSFSGDFLEPKGFFALAPP
5659	13710	A	6469	204	401	WHEFTGAENHCKTLPKENF*WCLCKSH PSEPKNAAYNRTLCDLGISKSEVSLGTSF EMWTSQGOE
5660	13711	A	647	12	355	LFSSLSGGMQSLSLGQTGISEGLN*LTSM APGNLWHMRNNFLFGSRCWMTRFSAEN IFKSVSFRLFGVKCHNTDSEPLKNEDLLK NLLTMGVDIDMARKRQPGVFHRMITNE QD
5661	13712	A	6470	249	906	RIHFPRVSGPSQSNPKFAVASRGFFSLSL SAQPDPLPPPLGEALALSLHPVPRRSTET VAGDSSELQLGLRSPQQPLAGLAFLARL FLLFPP*RCCKSPN*NDRRRSSVDSQIHL VGRESAHLPLAGLRVCVSLPLLARCFGQV LQGVPLWIPSPGGS/AGVSGRRREERH MGVVVMRVRVEARVSS*ESKI/SRALR*S THLGLPKCWDYRREPPCPAH
5662	13713	A	6471	401	659	LIDLRFIYLFYLR*GLRLVP*AGVHWCN LGLSLQSLPPGFKRFSCSLSSSWDYRHAP PHPAHFCIFSRDAVSPCWSG*SQTPDLR
5663	13714	A	6472	1271	1538	
5664	13715	A	6473	1	369	ACSSCFHAGLEHVRVRGSGHSGVAAAR RSEAPDLFC*PPSLPVPSTPSPSPAPAMN QATSDPTHCTPTLPTCPNAAP*AGPTAD TPS*GIPDLPAVVLKTPQHLDLPVCSLCG PPLGPTET
5665	13716	A	6474	3	340	ETRSYSVTQAGAEWHDHRS*P*PPGLR *SSHFSLSNWDYRCVPPHSANFLVIFVEI VFHHVAQAGLELLGSSDLPT*ASQSTGIT GVNHCPAEKEVLPREKAMQRGGSQA
5666	13717	A	6475	21	273	GMNERGNITKEIKKIWEYYE*LGTSQLD TLD*TNSQKDTNYQNQLTKYRKYGLEPI TSDYISNFKRLPKKSPGLDGFTGEFI
5667	13718	A	6476	2	3204	FGEPTSEQTGTAAGKTIAQTAPVSWKP QDSSEQPQEKLCNPNPCAMFAAGEIKTPT GEGLLDSPSKTMSIKERLALLKSGEED WRNRLSRRQEGGKAPASSLHTQEAGRS LIKRVTESRESQMTIEERKQLITVREEA WKTRGRGAANDSTQFTVAGRMVKKGL ASPTAITPVASAICGKTRGTPVSKPLEDI EARPDMQLESCLKLDRLETFLRLNNKV GGMHETVLTVTGKSVKEVMKPDDDET AKFY
5668	13719	A	6477	250	5816	
5669	13720	A	6478	553	7399	NFNKKNLSFLGFPQRKVSSFOKEFSLED KEQLANHERGIDAQLLVALPKVAELRQI FEPKKKEFLEMKRKRIARRLEGIENDTQ PILLQSGTGLVTHRLLEEDTPRYMRASDP ASPHIGRSNEEEETSDSSLEKQTRSKYCT ETSGVHGDSPTYGSGTMDTHSLESKAERI ARYKAERRRQLAEKYGLTLDPEADSEYL SRYTKSRKEPDAVEKRGGKSDKQEESR DASSLYPGTETMGLRTCAGESKDYALH

5670	13721	A	6479	380	999	AGAKGGGPGRGMKKTNSLTPLLSAYR LLPVELSKGWGILGFSVCPFAPGLMAKG VSPCDTAVKRDNIH*VGGGV* *WSGVPALTALFLVDNHHEVYLWQGW WPIENKITGSARIRWASDRKSAMETVLQ YCKGEAPSNMPAARNRWGSPSGMRSQE TPFPFCACQPASIHKAQVVDENPIFSPL KPFEDVIKFLD
5671	13722	A	648	1134	1633	PNPTGTLMLARKWCPDGLQSLPPDVLS *GEHLLSCLCQERACSSNSRRRQAWTG SQGSRVINFFFAKVGTC HQGNHQA KAPGTPPTPSYPGTPSRQLLWQVWQPRP ALPASSPCSRHQLYLPRQAMSWLLSPAP SVPLDFSGASPVWATLCFPHRPLHR
5672	13723	A	6480	78	200	KKGSPFFPKVGGQGGNLGELLEPPKLLK KFFCFKPPKRGDYSSSSSSPDSSSSKKK GVSPFWPGGV*TPKEGGL
5673	13724	A	6481	179	384	FNSYYMYVYVYVHICVFLYVCICIYRYI YLCIAVITCLMNEW**FKCKGNDARGYE KKLPSKYEIEKE
5674	13725	A	6482	76	205	RKKPEPEKTCFDNITGNTYPCSTYEHDS D*YYVNRT*LCAER
5675	13726	A	6483	2	774	HSYSHSHGHGCGSPAGDTEQGYKPVWPV CSLFDPDGSHPGV*QPIHEPA/QGRGGLP WGAA*TPRAWRLA*RPRG*AALPWA*T SPGRPASAPLAHTGSGCPSRPTRAPGPS IPIQNIKRYPYGEAFVPSRAGPTVGVTRS FHLAPSLPPFPSS*LPSLPPRTTTSCTRAI LTPSS*QKLLYPPSRPVVLLVRRARPPAA APTSEPPERSPWETPHAAPSQLHELHET HSAQKSDLLPAPEAM*PGSVSSRFLY
5676	13727	A	6484	2	732	GRRRPGPKPPRAPGRDRDRCNF*PCCPP GAKSSAACCCSDIRRAARAIPLGNSPCSP LSAP*AP*NPLCRTVMGRSPMTLSLGSRT PTSLPAPFPWSPRFG*PTHPRARSLGTL WPMPTTP*IQAAATPWRR*PPATQASTP HSLRGSSSSSQRLAPLRPTSSRACMAGP TTPAAGALGPVTLGVLTTPQAWASLRTP GRLLTSLSPRQPLQRRQWQQQPQLQPQ PRPLWQPCRRHRTRI
5677	13728	A	6485	2	338	CTTAIPTPEEMTRLRSMNRQLQINVDCA LTEVDLLQSRGNFDPKAMNNFYDNI*PG PDVPPKPSKKGPTDSEPKTSSGPCSNI LLSCKFFHACSRFQNPPIQHQSTLAA
5678	13729	A	6486	84	300	RVGARGKMTALASGQLGPLMCQFGLPA *AVEAANKGDVEAFAMQNIKPEQI* GDTKDKTD*KEDLSLD
5679	13730	A	6487	91	668	SRAQVVLHCVLREWAGGRRSPAPPSPW PVLHVPDPQSWQLSSVALGCSPGWSSAL AWLFLQALGMFSAALASGQLGPLMCQF GLPAEAVEAANKGGKVAAPGTPRPEPG AGSIPVPLDLQKWG*GGKGHSPSALDPI ALIPSGARVRHHLVSLTCS\VEAFAKA MQNNAKPEQKEGDTKDKKDEEDMSL D
5680	13731	A	6488	1	414	LQPGPAGAAQVVDLA/SVV*PPEIMAPILA NADVQERLLPYLPSGE\SLPQTADENQNT LTLAPSSQALGMFSAALASGQVGAPF MCQFGLPAEAVEAANKGDVEAFAKA MQNNAKPEQKEGDTKDKKDEEDMSL D
5681	13732	A	6489	205	553	LSRPRHHKASTTGAQMQRTRSMRQEP EKAILTLRGSREPTPRAPQLVPSVPSSWL FLSLHSIAQTPLPHTHSTHTPRSQPALPSQ APVPVPQHPPHPPE*ALSPDNLFMILKSP

5682	13733	A	649	1	370	QRLAEMSNARKHATKMTYQPTNGTL TSGYVADRRVKHHS GGEEPFQAQKQEP HPGTSRQ*QTRVNLHSLPDPEMHEQTYF RGMRYRKLGGWKAGPEGTFYDIPRYVTA YTFATRPA DIRAM
5683	13734	A	6490	3	347	SFFFVLRRLSLAVAQAEVQ*RNLGSLQPPP PEFKRFSCFSLPSGWDYRRPPPRPANFLY F**RGVSTMWGGQWSRTPDLRGDLAHL GSPKVLGMTGREPPCLGPLNGLTFLPEIS
5684	13735	A	6491	280	406	FFVFLGETGFHRVSQDGLNLLTL*SARLS LPRCWDYRREPPH
5685	13736	A	6492	1665	1787	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5686	13737	A	6493	1431	1553	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5687	13738	A	6494	1740	1862	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5688	13739	A	6495	1173	1295	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5689	13740	A	6496	1027	1149	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5690	13741	A	6497	631	744	VIEHLVSQDGLDFLT*SARLGLPKCWD YRREPPRVH
5691	13742	A	6498	166	352	IFFVFLVETGFHHVSQDGLDLLTS*STRL GLPKCWDYRREPPRPAPSSPIHTVAPIQ YTHP
5692	13743	A	6499	2250	2372	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
5693	13744	A	65	1586	1775	
5694	13745	A	650	1	222	
5695	13746	A	6500	150	368	EKELAFFPQGEMQGGN LG*LKPPPLR*R DFSCALPRGGNGRGAPSPTNFGFLGG NGVYPSGPGGFETPDLK
5696	13747	B	6501	174	350	MDEKTKKAEEMALS LTRAVAGGDEQV AMKCAIWLAEQRVPLSVQLKPEVSPTQD IRFLM*
5697	13748	A	6502	1	498	EFRAPGPLGPRTTRPARRVAGSGGPG*G TIFPAPPPSPAPLPGPPLSLSPPKPLPLRR TGASREERGLCLET RDARGAPASGGPPG LGTPRLGGVRASFPRFFPRLVPFPAP ADLSRRPLPSHRPTQDPGLVIGQCDASRL PRGQRGTHRAWAAPEATRPG
5698	13749	A	6503	919	1761	RAFSFNREEPTADEQGLPTSVAGRPVIA AVPSWHARGTERRAPGR TD*HHPH LG AQPSAALLPGLP*HCGHISAGGRREAGNI PGRKIIYPP PQFGYGSNNGQHAYIKLSD A/RSLTR*IQSSMTSCRVL R*GPSLPSAGS SPGLGMSCLTSGTSCGYMTSSWPPTDA DLLCSRDCVVS RAGSPGL*L*HGLGPPPV /SPRSLRTC PMRH*SAEQETFLSFPHPNL LGRPLPNSKL RGRQPLLSKTL SWHQPSR GLIWCCGSGGDFCGLKIEQKMS
5699	13750	A	6504	131	575	VFALKPGTPGALPQVGVLRLERPGWV VSGRPPPASSHLGLVPFPAPKCGTLSRR PLPSHRPTQDPGLVTGQL*CFPTAAGTAT AHTGLGPRRKPHRPWLS CSWSPRLFPGD PEVSIFPRKARSPPGEWGTATPDGREDQE SRGNP
5700	13751	A	6505	2	291	HEPQLNSNNVALHGAVIPGPPFLFGACIN LMNFMVALFIPEYKIARGVQKHTYKHN GSLTNT*RGSDIEDIEPLLRDSTIWELFSF EEPNGQCP EL
5701	13752	A	6506	1	267	PRFKLFPCLSLSS*DYR*VPAITPG*FLY FF*VKTG FHHVGTGLELLTSGDPPTSAS QSAGITGMSHCTWPISFLYLWHTGGKKK EC

5702	13753	A	6507	1	216	HEWMGTRVSEWMDEWKEGWKMDGK VDK*MNGWMEGCLYQWLNTEILCQELI PYTCLCLFSGWIYIFKQSILD
5703	13754	A	6508	74	356	
5704	13755	A	6509	2	375	RHEVKPQWTPG*DTDHLPNLSVALGPTR QPGRQRPEGTQVPSIPASSPASQSQPPQ SQPPNPSLLHPRTPTPSLPIPASLIPSPKT QTL*IPASEVGTVSNPTPWTRKLGPGEAN RLSLMV
5705	13756	A	651	3	556	LPTEVAAISFSLAIGKHSATVSPWAGKP PSRILPHLGPLLPOKASWPPLRLVKPKF VKKRPKKFIRHQSDRYVVIKRNWRKPR GIDNRVRRRFKGQILMPNIGYGSNKKVTK HMLPSGFRKFLVHNVKEQGLEVLLMCN KSYCAEIAHNVSSKNRKAIVERAAQLAI RVTPNPRLRSEENE
5706	13757	A	6510	3	148	HERREVTVIRRGKHLRLVPTRWAGK GLLG*SICFWSFSLGHHWSVC
5707	13758	A	6511	50	255	LSMVSTVLVTTIMKLCY*K*QIQSWLPC LTHTKTHTHTHTHTHTHKVLHTLTCKQ YYAIGNVLSFY
5708	13759	A	6512	268	355	
5709	13760	A	6513	2	206	
5710	13761	A	6514	1	317	FFFFFFPLFRQCLTLSPRLEYSGTISAHCS LSQPGSSDPPTSALRVAETTGRHHAWLI FVF*VETGLHHVVLAGELMGSRNQPTS ASQSAGITGVNHRAWLTW
5711	13762	A	6515	2	210	KEKIFPSPGFKHPPPPF*KTPLKGKRIFFS PPRKNWPPQRIFFKAPSSSSSSSSSSSA QI*SFNSP
5712	13763	A	6516	674	985	WFFFWLCHPGWSAVAWWHDLSLQPPP PRLM*FSCLSLSNWDYRRAPPFLASFVF LVDTAFRHLGQAGLELLTSSDPPTLASQS AGITGVSHRTQLRSSFDS
5713	13764	A	6517	2	336	
5714	13765	A	6518	3	260	CLGLLVIFVCNFQSIRDYRRPPLH*LIFV FLVEMGFYVYG*AGLELLTS*SARLLAS LRAGITGVSHRARPRSFVFGFGWQDHG
5715	13766	C	6519	38	478	
5716	13767	A	652	2	395	
5717	13768	C	6520	33	317	MLTNHLHHWPFFKNXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXTRCPRIITFFLRG*
5718	13769	A	6521	1	253	RRLFFFFLRWSFALVAQAREQWCNLG*L QPPSPGFKQFFCFSLLNSWDYRRAPSCPA NFVFLVEMGLYIFKEWDNDGRMICEAF
5719	13770	A	6522	2	411	GVLRLSSACPQACPSSTSTGP*AALAGFT TTGSLCWAWTPPSSSFVSGSSREAPSGT ATTSWTRNVATATSATTANRMAMCTSTR TARLLLAPTNCSPRSKLTLPIDPCSGGC RLTCKDNTPLRGTOGRRQGT
5720	13771	A	6523	2	222	THIGLPKC*DYKCEPPVHRQFL*F*VETR FHHISQAGFKLTTSGDPPALASQSGRITG VTTRTQPLNGFYKVM
5721	13772	A	6524	2	261	VVVVSQYAAERPSVVAHACNPSTLGGR GRWLT*GQQVETSLASGYLPTLASPKCW DYRREPLRLACFNFFVETRNLTVLPISV QQ
5722	13773	C	6525	203	355	MVALSTRGQVHLSGAVVPSSFLIFLIAPS GEQEVDIAMVAGYAVTSVLL*

5723	13774	A	5526	2	671	GVGGVGRGPPAPPAPAGFPSTILW PSPPLL*LPPPGLGTGFLPFGHGCPPLSQS PWILFPWGGAQAQPL*P*PRHPCPPHPR QSYGRQLPTFWLAPPSFCLSLVFSSLSLIL SLSSVSRSVLLP*HPPPHISFHLGFLS*AS PISGVGGIKAFPLRFQPPF*PLIPTTPLSL PKMGALWGRL*HSTPAQAMGSRAPFSG LAQASTYLLQPFQVVGVS
5724	13775	A	6527	3	477	AGKFPLRSGHFPCFLTVESVCSGPFKPSV IPLSPCGASAPSPRFLSPSPGLVRAVLHC TLLVAS*APPPASPPGVAVFSPVSIWHP RLPGSYGLCGQHLRDPKPRSRTHFRAG VPPLVSCSLPSPNLPLMTSGVQRPPKGLE NSLLQLADLNK
5725	13776	A	6528	1	381	
5726	13777	A	6529	1	2654	MSFFSTLKTALSLKEKLAATGVLVLICAL VGAGFAWERHQLKQAEKIGSLDQAVK ERDKSIMDLNQTETMKNKAEQHFSQEV KNESEQAKYADRQMERKAEVQKQLVA AGNVRQRIPADTQRLRESISEFNADAD KGIFMSDKVTVKQTINKATSIYKIEQITV GKPGSEQYRRAFELADQLGLKHPDCIEH VFPTYADEQCTHVLTEEDFFSTEEREGV DRCIGVICSSVDELFPNVPEYGGIGYQF LYEGDELKCYEHDIESKAKELTVNSNNT VQPVALMRLGVFVPKPSKSKGESKEIDA TKAFSQLEIAKAEGYDDIKITGPRLDMDT DFKTWIGVIYAFSKYGLSNTIQLSFQEF AKACGFPSKRLDAKLRLTHESLGRLRN KGIAFKRGKDAKGGYQTGLLKSWRADS KLWELFQLDYRVLLQHHALRALPKKEA AQAIYTFIESLPQNPLPLSFARIRERLALQ SAVGEQNRIKKAIEQLKTIGYLDCSIEKK GRESFVIHTYLIPAIQQHIIQCDFPLSHIL DFYSPSSTHRSCRASRSHQIESEAWLPIE AGNHQNDSGYNLNVEEIRVLYAWRMPK HVVTHLAKDQLHKVAQRANRMLNVL EQVQLQKDELHANEFYQVYAKAALAKL PLLTRANVDYANIIDIYEHARGVPKYRDR YSERGVSKTVSTVSLAHAMRAHPHLLM EDLRILVIDLDPQSSATMFLSHKHSIGVN ATSAQAMLQNVSRLEELFEFVPSVPG VDVMPASIDDAFIASDWRELCNEHLPQG NIHAVLKENVIDKLKSDYDFILVDSGPHL DAFLKNALASANILFTPLPATVDFHSSL KYVARLPELV/KLISDEGCECQLATNIEK QTNNWANP
5727	13778	A	653	1	1055	TDCRVDPVRPRVRVEHSIVGTRLVSCQ LQPSQPNADQGKLTMMRIAVICFCLLGIT CAIPVKQAESGSSEKQLYNKYPDVA TWNPDPS/QVRQNLGPTGPFPSKVQR KGHGPHGMIWDGWKVDVDDPC/VDSQDS IGLGTTLDDVDDTDVSHQSDSHSHSDES DELVP/DFPTDLPATEVFTPVVPTVDTYD GRGDSVVYGLRSKSKKFRPDQYDPAT DEDITSHMESEELNGAYKAIPVAQDLNA PSDWDSRGKDSYETSQLDDQSAETHSH KQSRLYKRKANDESNEHSDVIDSQELSK VSREFHSHEFHSHEDMLVDPKSKKEEDK HLKFRISHELDSASSEVN
5728	13779	A	6530	1	945	

5729	13780	A	6531	146	4368	LGFLRLSEMPRKQGDYRT/SDMEIRGR VEQRVGYTIEQINHMIRDVFGTRLRRAED VFPPVIGVAAHKGGVYKTSVSVHLAQD LALKGLRVLLVEGNDPQGTASMYHGW VPDLHIHAEDTLLPFYLGEKDDVTYAIKP TCWPGLDIIPSCALHRIETELMGKFDEG KLPTDPHMLRLAIETVAHDYDVVIDSA PNLGIGTINVCAADVLIPTPAELFDYT SALQFFDMLRDLLKNVDLKGFEPPDLAI LF
5730	13781	A	6532	820	2011	TTTLVRLPCRSPKRRIKALRSQRLGLPM MRVPSFRLRVTSPTFMKSLTWQVHLLVL MLLVMFWTCNPSVCTASYVAAMCWW QAPMAPAKPQPSRWKTSKARMYQSQK VAKTSTLTVLSLLLITVPAAYFTRLLMLL LPLMRVPSFRLRVTSPTSMKSLTWQVHL LVLMLLVMFWTCNPSVCTASYVAAMC WWQAPMAPAKPQPSRWKTSKARMYQS EKVAITSTLTVLSLLLITVPAAYFTRLLM LLLPLMRVPSFRLRVTSPTSMKSLTWQV HLLVLMMLVMFWTCNPSVCTASYVAA MCWWQAPMAPAKPQPSRWKTSKARM YQSEKVALTSTLTVLSLLLITVPAAYFTR LLMLLVSKSL/CTCSLNYNIGQIALSFSKA PDKGTEIAIERGANGDVLDMQSVGVYSQ LRRRYVLVASSDGTSTATFKMEDFEGQ NVPIRKGRNTIYVSRISVVDNGSGSLLH SFTNAAGEQITVTCSLNYNIGQIALSFSK APDKGTEIAIERATDDACTFIPVTRDQSDI YEVFNAGSSFSGSYAAGDVLDMQSVGV YSQLRRRYVLVASSDGTSTATFKMEDF EGQNVPIPKGRKNIYVNRISVVDNGSG SLLHSFTNAAATADACTFIPVTRDQSDIY EVFNAGSSFSGSYAAGDVLDMQSVGVY SQLRRRYVLVASSDGTSTATFKMEDFE GQNVPIRKGRNNIYVNRISVVDNGSGS LLHSFTNAAATADACTFIPVTRDQSDIYE VFNAGSSFSGSYAAGDVLDMQSVGVYS QLRRRYVLVASSDGTSTATFKMEDFEG QNVPIRKGRNTIYVNRISVVDNGSGSLL HSFTNAAAGEQITVTCSLNYNIGQIALSFS KAPDKGTEIAIERGSST
5731	13782	A	6533	1	3039	MLNVLTEQVQLQKDELHANEFYQVYAK AALAKPLLLTRANVDYAVSEMEEGYV FDKRPAGSSMKYAMSIQNIIDIYEHARGVP KYRDRYSEAYVIFISNLKGGVSKTVSTVS LAHAMRAHPHLLMEDLRILVIDLDPOSS ATMFLSHKHSIGIVNATSAQAMLQNVSR EELLEEFIVPSVVPBGDVMASIDDAFI ASDWK/ELCNEHLPVLKLISDEGCECQL ATNIGFMSKLSNKADHKYCHSLAKEVF GG
5732	13783	A	6534	1	2607	
5733	13784	A	6535	1	4557	
5734	13785	A	6536	3	2847	ELHAYAMSIQNIIDIYEHARGVPKYRDRIL AHAMRAHPHLLMEDLRILVIDLDPOSSA TMFLSHKHSIGIVNATSAQAMLQNVSR ELLEEFIVPSVVPBGDVMASIDDAFIAS DWRELCNEHLPQNIHVLKENVIDKLK SDYDFILVDSGPHLDAFLKNALASANILF TPLPPATVDFHSSLKYVARLHELVLKLSN EGCECQLATTIGFMSKLSNKADHKYCHS LAKEVFGDMLDVFLPRLDGFERCGES
5735	13786	A	6537	1	4236	
5736	13787	A	6538	65	316	
5737	13788	A	6539	54	265	

5738	13789	A	654	2	1103	PGRPTRPPTRGGGRAQHRLYQTL SQAS CSLLSQTPTRGKLTMMRIA VICFCLLGITC AIPFKQADSGSSEKHFVYNKY PDAVAT WLKP*PIFRRQNL LGPTEWLCPLKETNGL *TRRTL SKLRSNGKAMDHMDDMG*WK VDGWTMWDSDSIDSNDSDDVDDTD DSHQSDSHHSDESDELVTGFSTDLPAT EVFTPVVPTVD TYDGRGDSVVYGLRSKS KVKFRRPDIKYPDATDEDITSHMESEELN GAYKAIPVAQDLNAPSDWDSRGKDSYE TSQLDDQSAETHSHKQSRLYKRKANDES NEHSDVIDSQELSKVSREFHSHEFHSHED MLVVDPKSKEEDKHLKFRISHELDSASS EVN
5739	13790	A	6540	2034	2174	EMPGHARCYADQQR YRFLPGSEVLP/ASI NVAWRPVDNLNTCSTRSPE
5740	13791	A	6541	33	285	
5741	13792	A	6542	1	2448	
5742	13793	A	6543	1	2979	
5743	13794	A	6544	1	3276	
5744	13795	A	6545	1	67	MTKCSHL CN NYLFSWLRDNGILIATGER RNV RKQ EYISRGYFTLKETVIDTSNGSRI SFTTRITGKGQQWLMKRLLDADVVRTTS IVMLAKVTFLSCITMSDFTFGYELACFV THSGLSR SAGHILSQCANLAATTSEYFIH KPHRLITAETGYSQSTVVRAFREAVNKG ILSVEIVIGDHRERRANLYRFTPSFLAFAQ QAKNALIESKLKISSAATKVAVLAKTL ALFNFLSTPPCQNDTPSPCQDDVAIKNK KSQVKKTKRSVSGGAGTTS LKKLT SWIA KAKAKADNLRLSKKRTQKHEFKQKVEA AARKYAYLKNKRSPDIGGISNFDNLPHC MTVNEALNAVLAKNKDNEQWGAVAGA YIADITDGEDRARHFGLMSACFGVGSV YMQTRYRGKLVSQGFVVQMILTPRAD GTFITSTDSETVHYHYGPKDLVTILFYIFI TIILHAVVQEYILDKISKRLHLSKVHHSK FNESGQLVVFHFTSVIWC FYVVVTTTPQA LTRVLNCLLALGSNAAVMGECGFAQLQ QTWASALADYAAAHKSMPRPEILASCH QTLNCLIESTRNSMDATNK/ADAGICRS RDDRFR*RCYASAFIPRDDPACSVGGSY R*CVITEF
5745	13796	A	6546	1	3435	
5746	13797	B	6547	9377	1600	MSDWSRV TGMKVHASAVAAPN*TGRH ARNKGRRITPSETLIISAATDSSIALLVAS MLLRVDSL SIAISVPLSGALENDRAI
5747	13798	A	6548	3	127	LFHPCQDSQQHH*CVCCRLTGHGAA*V HGPCQAVQTYRASH
5748	13799	A	6549	2	323	
5749	13800	A	655	3	267	TINPKLLKNHARGTPEVPNOKHHWSPKQ KPLLTKNPKNLPRWPVPIPPFPPEEKPR KFP*TPKRRIP*TKIGPLPSNPGYPTKPPF
5750	13801	A	6550	2	94	
5751	13802	A	6551	171	632	
5752	13803	A	6552	3	325	
5753	13804	A	6553	2	171	

5754	13805	B	554	104	1164	MCDEDETTA...CDNGSGLVKAGFAGDD APRAVFPISIVGRPRHQVGMVGMGQKDS YVGDEAQSKRGILTLYPIEHGIIINWDD MEKIWHHTFYNELRVAPEEHPTLLTEAP LNPKANREKMTQIMFETFNVPAMYVAI QAVLSLYASGRTTGIVLDSGDGVTHNVP IYEGYALPHAIMRLDLAGRDLTDYLMKI LTERGYSFVTTAEREIVRDIKEKLCYVAL DFENEMATGRHPSILPWKRATSCQTGOV ITIGNERFRCPETFFQPSFIGMEVGGHFR PPYNSIMKCDIDIQEGPCMTNVMFGGH PRLYPWEFADPHARKRFTGAGTPGTHEE SKDKDSFAPRRSGKILG*
5755	13806	A	6555	1	308	LRPWC/GHLRT*AQYHTLRAARLDPNFA IA*MEAKATDGPPPF/VRGFPTIYFSPA NNRLHPRTSEGGRLSDSIFYLHVEATNP PVIQEV*PKKKKKAQEDL
5756	13807	A	6556	2	589	AIRTAKEKFVMQEEFSRDGKALERFLQ DYFDGNLKRYLKSEPIPESNDGPVKVVV AENFDEIVNNENKDVLEFYAPWCGHCK NLEPKYKELGEKLSKDPNIVIAKMDAT ANNVHSPYEVRGFPHILLSKPNKKLNP KKYEGGRELR*FLLAIYQREATKPPVVIQ V*FIPKYRRRRHQEDLLKPVAQTPTL
5757	13808	A	6557	1	129	
5758	13809	A	6558	23	115	
5759	13810	A	6559	1	1582	GRGWRAVLGWSRRRSGLPATVGSMA LLFLLPLVMHGVSRAEMGTADLGPSSVP TPINVTIESYNMNPVYWEYQIMPQVPV FTVEVKNYGVKNSEWIDACINISHHYCNI SDHVGDPNSLWVRVKARVGQKESAYA KSEEFVACRDGKIGPPKLDIRKEEKQIMI DIFHPSVFNNGDEQEVDPETTCYIRV YNVYVRMNGSEIQYKILTQKEDDCDEIQ CQLAIPVSSLNSQYCVSAEGVLHVWGV TEKSKEVCITIFNSSIKGSLWIPVVAALL FLVLSLVFICFYIKKINPLKEKSIILPKSLIS VVRSATLETKPESKYVSLITSYQPFSEK EUVCEEPLSPATVPGMHTEDNPGKVEHT EELSSITEVVTTEENIPDVVPGSHLTPIER ESSSPLSSNQSEPGSIALNSYHSRNCSESD HSRNGFDTDSSCLESSESSDSEFPNNK GEIKTEGQELITVIKSPPPSCYDKPHVL VDLLVDDSGKESLIGYRPTEDSQRNHFH EISLSCTQL
5760	13811	B	656	197	404	EQQLQAQHLSHGHGPPVPLTPHPSGLQ PPGIPPLGGSAGLLALSSALSGQSHLAK DDKKHHD AEHHRX*
5761	13812	A	6560	69	523	PLGCASSQSISASRNTLCTTASSCCPQVL AHSKAAEYMTRWKVQQMPHSQDRAL QSVFCAPFHS**LVALPTGHR*MTPAQFS ECFQATSGGSD*DPFLAPSFLAVPGLPVAP GLLLPLGPVHSRATMEEGQATHEELTVFI GLRPGVRGS
5762	13813	A	6561	101	1469	RTHPTFPHPGTGPTSAPPSGALEGTAGTI TSNEWSSPTSPEGSTASGGSQALDKPIDN DGEVWSPDIEQSFQEAIAIYPPCGRRKI ILSDEGKMYGRNELIARYIKLRTGKTRTR KQVSSHQVLARRKAREIQAKLKDQAAK DKALQSMAMSSAQIISATAFHSSMRLA RGPGRPVSGFWQGALPGQAETSHDVK PFSQQTAVQPPLPLPGFESPAGPAPSPS APPAPPWQGRISVASSKLWMLEFSAFLE QQQDPDTYNKHLFVHIGQSSPSYLRPYL EAVDIRQIYDKFPEKKGGLKDLFERGPS NAFFLVKFWADLNTNIEDEGSSFYGVSS QYESPENMIITCSTKVCSEFGKQVVEKJET EYARYENGHYSYRIHRSPLCEYMINFIHK LKHLPEKYMMSVLENFTILQVVTNRDT

						QETLLCIAVVEVSASEHGAQHIIYRLV KE
5763	13814	A	6562	1	1290	
5764	13815	A	6563	604	1047	SNNRTDNPTSVAYLSKETDVVAKGWPH CLWVVAVAILVLEAIKIIQKDFTVWT SHDVNGILGAKGNSWLSKRLLRYQAL LLEGVPLQIHTCV ALNPAIFLPEDGEPIKH DYQQIVAQTYVT*EDLLEVPLANPDLNL YTNGSSFV
5765	13816	A	6564	1	1410	
5766	13817	A	6565	510	755	
5767	13818	A	6566	59	411	SWPSDKQTLVVQRGQKMEQANHPDPTD HMSQLMWT/VLPQGFSDPHLFGQALA QDLGHFSSPGTLVLQYVDDLLLATSEA SCQATLALLNFLANQGYK/LSRSKAQL CLQQVKYLCL
5768	13819	A	6567	1	565	
5769	13820	A	6568	126	492	CNNSMTSLQVRLKVCPRPCRTSM/LPIRII *KLPQVCLDLL*IREGEWDMYPCWAKFP CPYSLKGT*PIAWGILWSFGDFFAY/IPLM QQQKH*FSSQNTRRNEEGQI*WPLLMHS QKPAPLPVV
5770	13821	A	6569	1	342	
5771	13822	A	657	2	651	LSRVLEFEFQFLQAOYHSLKLECEILAS EKTEMHRHYVMYYEMSYGLNIEMHKQ TEIAKRLNTICAQVIPFLSQEHQQQVAQA VERAIQVTMAELNAIGVRGLPGLPPTQQ QLQAQHLSHGHGPPVPLTPYPSGLQPPG\ IPPLGG\SAGLLALT\SALDGQSHLAIKDD KKHDA*HHRGDRPGKPD*DFVLILLQC CKVVCIAKESPNLYREQT
5772	13823	A	6570	55	219	LGNKHLGSDPRGSWVTGEYIFLRPIIA A*GRQ*DFLPPELWWTSLNNSWAFS
5773	13824	A	6571	339	1371	ASHPLRGLLCGPSLPNEPCPLLHGTQSHR PLKG*GVRAHSTGLAGSSTCRPLRDPLG EASWAPESAQGL*IHQSALCI*LKLKPAG QRAKLGDRLDIPDRRKSSTILGRAGDLQ PAMPEPPTLSVGSCAAQASPMNPAPCST APSPIDHSRAEECGRIARDWQAAPPAGP CGIHWVKPAGLLSLLRDCKYTNRHSVSS SRFANTNQHPASSSGFVNAPIDTLYLANL VGTWRTFVASSGIVNAPISTLSKQTTWL YQSAGCGKESTQASGAQTGGTSFKSLET TGSISEASSAKHCTELFSRFTTFNPDSVPS DGVVGDTAGTVWPGVLKGEPCHLGTCTY RCVLDPHPTPSESDTIQGIHVQVCYMSTL HDADVCDTNDPVTHTKKYIYSTEIFTS NNPELRSEDETVFRALEKWKTSQTIGE MDFYICNDPHPDALYQNGLSKMQDTV SLSVFSPSVAA
5774	13825	A	6572	749	1002	QLKKGTSNLLVSKPSPVWIPTGTLTQIMG TGVANIC*PVF*KD*GELGKMNYAMMS TITQGKEENPAFLKWLWEALRKYTPLSP
5775	13826	A	6573	1	1632	
5776	13827	A	6574	307	543	

5777	13828	A	6575	1	1149	
5778	13829	A	6576	119	409	GDICHHLGLTPVGSLSLSCSR*QVA*VG AVTAATIGTGILLQQLAFLVCNWLLSG SSENFPRSAICFKSEREKGTICQVGPNSP PPTACKGHN
5779	13830	A	6577	1	2433	
5780	13831	B	6578	97	1065	MHAVHTSLLVERTILTTTKERGSTLQYPL RPGAHKGLQDIVKRFAQALIRKCSSPC NTPILGVQKPNGQWRLVQDLRLINEAVI PLYPVVNPYNLLSQIPEEAEWFTVLDLK DAFFCIPLHSDSQFLAFEDPTDHTSOLT WTVLPPGFRDSPPLFGQALAQDLGHFSS PGTLVLQYVDDLLATSSEASCQATLD LLNFLANQGYKTHSRSDAPVGFIDRHL VATEKIPRGREPLSSLAVYTRGRPTRGA RRTIVSRIRRDFFRYRYLAQREPLYQQ SLLIHLQLDSQPALSVMIGKVPNVVELTP NFGTAAQV*
5781	13832	A	6579	1	2403	
5782	13833	A	658	455	1033	GLYFGKVGEVIEQVKAFDELKALIAFFPL SSLSFLAPFVCLNLLFCFRLPLLSCLFSP GCRLHRHHCHHYLLLLLFLSHHHHQ QQQLQAQHLSHGHGPPVPLTPHPSGLQP PGIPLGGSAGLLALSSALSGQSHLAIKD DKKHDAEHHRGERPGKPD*DFVLILLQ CCKVVCIAKESPPLYREQTMR
5783	13834	A	6580	1	2838	
5784	13835	A	6581	1908	4698	SNDRTEDDCGKHPFMSSPPTPWPVCLII EGQEIDFLDGTGTFVLPCLGRLSSRSV TIQGILGQPVTRYFSHLLSCNWETLLFSH AFLVMPESPTLLGRDILAKAGAIISMKT GNKLPICCPLEGINPEVWALEGQFGR KNAHPLQIRLKDPISFYQRYPLRPEAH KGLQDIVKHLKAQDSVRKCSSPCNTPIL GVQKLSQWRLVQDLRLINEAVIPLYPV VRNPYTLLSQVPPEAEWFTVLDLKD
5785	13836	A	6582	1529	2945	
5786	13837	A	6583	3	154	
5787	13838	A	6584	3	425	
5788	13839	A	6585	3	223	
5789	13840	A	6586	3	330	
5790	13841	A	6587	50	1740	RSPHCCLTAHLTMASAARLTMMWEEVT CPICLDPFVEPVSIIEGHSFCQECISQVGK GGGSVCAVCRQRFLLKNLRPNRQLANM VNNLKEISQEAREGTQGERCAVHGERLH LFCEKD GKALCWVCAQSRKHRDHAMV PLEEAAQEYQVRPKRHLEKLQVALGELR RKQELAEKLEVEIAIKRADWKKTVETQK SRIHAEFVQQKNFLVEEQRLQLELEKD EREQLRILGEKEAKLAQQSQALQELISEL DRRCHSSALELLQEVIVLSESWNLKD LDITSPELRSVCHVPGLKKMLRTCAVHIT LDPDTANPWLILSEDRRQVRLGDTQQSIP GNEERFDSYPMVLGAQHFSKGHYWEV DVTGKEAWDLGVCRDSVRRKGHLLSS KSGFWTIWLWNKQKYEAGTYPQTPSHL QVLPCQVGIFLDYEAGMVSFYNTDWHGS LIYSFSECAFTGPLRPFSPGINDGGKNT APSNPLVPLNIGSQGSTDYWMAFSGLP LSPHWAPASSATKPWPLFPHGTLEPPLSS AEASRD PQASFSREVTSPINIPAPDGVV
5791	13842	A	6588	2	472	
5792	13843	A	6589	1	239	QCCSGGTHGNPAIGDRMQKQILPWAPA QMKIRFMAPPERKYSVWIAAPILASLSTS SRMWISKQEYDESGPSIVHRKCF
5793	13844	C	659	178	360	MERPERKIXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXS

					YYSFKNLI*
5794	13845	A	6590	1	834
5795	13846	A	6591	1	702
5796	13847	A	6592	1	1623
5797	13848	A	6593	1	1132
					MEEEEIAALVIDNGSGMCKAGFAGDDAP RAVFPISIVGRPRHQGVVMVGMGQKDSYV GDEAQSCKRGILTLKYPIEHGIVTNWDDM EKIWHHTFYNELRVAPEEHPVLLTEAPL NPKANREKMTQIMFETFTNPAMYVAIQ AVLSLYASGRITGIVMDSGDGVTHTVPI YEGYALPHAILRLDLAGRDLTDYLMKIL TERGYSFTTTAEREIVRDIKEKLCYVALD FEQEMATAASSSSLEKSYELPDGQVITIG NERFRCPEALFQPSFLGMESCGIHETTFN SIMKCDVDIRKDLANTVLSGGTTMYPG IADKMQKEITALGPSTMKIKIAPPERKY SVWIGGSILASLSTFQQMWISKQEYDES GPSIVHRKCF
5798	13849	B	6594	635	646
					MCDEDETTALVCDNGSGLVKAGFAGDD APRAVFPISIVGRPRHQGVVMVGMGQKDS YVGDEAQSCKRGILTLKYPIEHGIVTNWDD MEKIWHHTFYNELRVAPEEHPVLLTEAP LNPKANREKMTQIMFETFTNPAMYVAIQ QAVLSLYASGRITGIVLDSGDGVTHNVPI IYEGYALPHAIMRLDLAGRDLTDYLMKI LTERGYSFVTTAEREIVRDIKEKLCYVAL DFENEMATAASSSSLEKSYELPDGAGHH HRQRALPLPGDPSFIGMEVGGHFTRPY NSIMKCDIDIQEGPFMPTTFMSGGTHDVP WESLTACRKEITRAGTPAPMEDQDSFAP AGAQNTRVWIGGSILASLSTFQQMWITK QEYDEAGPSIVQPQMLLDLHLQARDFS RTTNLLNGGGG*
5799	13850	A	6595	1	1284
					MGDTPRQFGGARPRSGGALRGCRSRGG GNRRGLCLSRALANGDRRLTMDDDIAA LVVDNGSGMCKAGFAGDDAPRAVFPIS VGRPRHQGVVMVGMGQKDSYVGDKIAQ SKRGILTLKYRIEHGIVTNWEDMEEIWL HTFYSELHVAPEEHPLLLTEASLNPKAN HEKVNQIMFETFTNPAMYVAIQALLSLY ASGRITGIVMDSGDGVTHTVPIYGGYA LPHTILHLDLAGPDLTDHLMKILTERGYS FTTAKREIVHDIEENLCYVALDFEQEM AMVASNPILLEKS*ELPDGQVITIGNEARF RCPEALFQPSFLGMESCGIHETTFNSIM KICDVIDIRKDLANTVLSGRTPPCTLGIA DRMQKEITALAPSTMKMKIAPPERKYS VWIGGSILASLSTFQQIWSKQEYDESGP SIVHRKCF
5800	13851	A	6596	1	370
					ETESRSVAQAGVQWHNLGSLQSPSPGFK RFSCSLSPSNWDYRHPSPCANFCIFVET RFHHVGGAGLKLTSQDPPTLAS*IAGIT GMSHCAWPSLHIWTLFFFACPRRWGTG QVLLAAIFSQ
5801	13852	A	6597	2408	2810
					IHTHTHTHTHTIFFLKRFSALVAQARVQ WRDLCSLKPPPEFKQFSCSLSPSS*DYR CPPPCPANF/SFFFVFLVETGFHHVGGAG LKLTSDDSPPTLASQNAAGVTGMSHCAWP QSNKYYQNNFTMIQEQQQQKE
5802	13853	A	66	275	577
					GGWITRSGVQDQSGQHSVDVSL/LKKYK KLTKYGGVLL*SQLS/RLRQDNHMPNG GRSCS*PRQHHCTPAWVTVRDSISKKKK KKNNKKKKEKKGKKALLEPG
5803	13854	A	660	365	800
					INVNFLEFYMTDITCFLSYSLTLMSPYIL DVLLLSLLLFLFHIAGMHILTFINHDI*VV HSFYLRH*HAMEITVYEFICLRIRYPFKAS KIFSMYNATVLFHI*CDR*LGS*IGILERS

						VGVC SVMVCIVIRYVISSVDAP
5804	13855	A	6600	111	426	RIYKDRAGSPAHSQCQRDPLRTSPRGPH SLPWGQAAQSDAETEATHMGAPSC LGP AQLPLEPGGRGSHTTSVDSRHDSVEGFR DSRQTESPWNDEN*NLLDYGSL
5805	13856	A	6601	1	2219	
5806	13857	A	6602	1	221	
5807	13858	A	6603	2	217	
5808	13859	A	6604	101	456	
5809	13860	A	6605	62	558	
5810	13861	A	6606	2	178	
5811	13862	A	6607	1	194	
5812	13863	A	6608	59	132	
5813	13864	A	6609	3	104	
5814	13865	A	661	2	58	
5815	13866	A	6610	2	620	GFRPGDPRVRETGVLPKPGMLVTFAPVN VTGGVKSVMHHEALSEALPGDNVGFN VKNVSVKDVRRGNVAGDSKNDPPMEA AGFTAQVILNHPGQISAGYAPVLDCHTA HIACKFAELKEKIDRRSGKKLEDGPKFL KSGDAAIVDMVPIARPMCYESFSDYPPL GRFAVRDMRQIVAVGVIKAGDKKAAG AGKVTKSAQKAQKAK
5816	13867	A	6611	293	384	
5817	13868	A	6612	39	543	QVAMGNLSGLRLAAGSCFRLCERDVSSS QRLTRSSDWKGUNGFC\TKPTGKVP GAP IPALTRVPFNTKP\TDW\QKKRPLIWSRS PSKMEDEIPQ\SLSPLEDALNACQRTKMP SERSSLSQWICPDGGMDCTFMVIEGQK\ AA\QRHDDFTQA*TLEKKARLERGKQL
5818	13869	A	6613	1	194	
5819	13870	A	6614	71	1145	NLRREPTNSRTLTVGATAGSITMKRLVC VLLVCSSAVAQLHKDPTLDHHWHLWK KTYGKQYKEKNEEA VRRLIWEKNLKFV MLHNLEHSMGMHSYDLGMNHLGDMTS EEVMSLMSSLRVP SQWQRNITYKSNPNR ILPDSVDWREKGC VTEVKYQSGC GACW AFSAVGALEAQLKLTGKLVSLSAQNLV DCSTEKYGNKGCNGGFM TTA FQYIIDNK GIDSDASYPYKAMDLCQYDSKYRAAT CSKYTEL PYGR*DVLKEAVANKGPVSV VVDARQPSFLPLQESGVYYDPSICTQNV NHGVLVVG YGDLNGK\ EYWL V*NSWGP VNFGE EGYIR/LWARNKG NHCGVASFPSY PEI
5820	13871	A	6615	2	289	
5821	13872	A	6616	2	125	
5822	13873	A	6617	9	106	
5823	13874	A	6618	2	505	
5824	13875	A	6619	1	104	
5825	13876	A	662	218	342	
5826	13877	A	6620	1	109	
5827	13878	B	6621	99	285	MPRKIEEIKDFLLTARRKDAKSVKIKKN KDNVKFKVRCSRYLYTLVITDKEKAEKL KQSLPXX*
5828	13879	A	6622	239	449	NCGNQRTSLRHRPTKRMPSQDPRKIR TLVKFKVRCSRYLYTLVITDKEKAEKLK QSLPPGLAVKELK
5829	13880	A	6623	1	104	
5830	13881	A	6624	1	109	
5831	13882	B	6625	99	285	MPRKIEEIKDFLLTARRKDAKSVKIKKN KDNVKFKVRCSRYLYTLVITDKEKAEKL

						KQSLPXX*
5832	13883	A	6626	239	449	NCGNQRTSLRHRPTKRMPSNCDPRKIR TLVKFKVRCRYLYTLVITDKEKAE/CLK QSLPPGLAVKELK
5833	13884	A	6627	2	129	YGPTHASGAMLRSCAARLRTLGAICLPP VGRRLPEASRDPS
5834	13885	A	6628	1	289	
5835	13886	A	6629	6	418	RRLMRDFKRLQEDPPVGVSGAPSENNIM QWNAVIFG/TFKLVEFPPEYPNKPTVRF LSKMFHPNVYADGSICLDILQNRWSPTY DVSPILTSIQSLLDEPNPNSPANQAQQL YQENKREYEKRVSAIVEQSWNDS
5836	13887	A	663	527	665	
5837	13888	A	6630	3	330	ARRRLMRDFKRLQEDPPVGVSGAPSEN NIMQWNAVIFG/YADGSICLDILQNRWSP TYDVSSILTSIQSLLDEPNPNSPANQAQ QLYQENKREYEKRVSAIVEQSWNDS
5838	13889	A	6631	51	418	
5839	13890	A	6632	3	141	
5840	13891	A	6633	1	581	HSDSAAAPGGGGAARDFFFQTDRRGSC GACSTPARRRLMRDFKRLQEDPPVGV GAPSENNIMQWNAVIFGPG/GTFEDG/T F*L/VIEFSEEYPNKPP/TVRVFIPKMFSP NVYA*WVGICLADILQNRWESQHMDVS FLSLTFNSVSGWDEPNP*QSSPIAQAQQL YQENKREYEKRVSAIVEQSWNDS
5841	13892	A	6634	2	266	YCGPL*SVWVARNPPGFVFEFEDPRDA AGVV*ELDGRTLCPGPSWGHPR*DDYC RRGLPPRRRPPRRRLNLSRSRSLYSPWT LSL
5842	13893	A	6635	3	164	
5843	13894	A	6636	1	947	IFLVFFITEMHRDSCPLDCKVYVGNLGN NGNKTELERAFGYYGPLRSVWVARNPP GFAFVEFEDPRDAA*V*YLCPLRTLGC RVRVELSNGEKRSRNRGPPPSWGRRPRD DYRFPSMLFSLSLLSNLQIGSSHLDLPHI PGQSAQLFIYQMSSQQLQQPSANKKAG KIHNTPFANQLNPTATSGQNLFRQILGP SVRAGLTFTISSLLKPKTNLQGEASLAA GAGPFLEIGEERDRCLGREITSRPDPSLGL VVDLGQMKGNRRQFAREVVRKLLHLT GVCTENFKFCLRLHKLGAFLRCFSCSNL FVS
5844	13895	A	6637	1	282	
5845	13896	A	6638	116	561	PLDLEMHRDSCPLDCKVYVGNLGNNG NKTLELERAFGYYGPLRSVWVARNPPRP LAFVEFEDPPRMQLDAVPRS*DGKNTNV ACPCKEWELVRMGEK/RSRNRGPPPSL/ WGRRPDGFIRREGVPPTLFGSPRKGG RFLFAARSRLS
5846	13897	A	6639	126	376	VLLARLQANGANTVELSAEWTFPSGYV GSVLPQGHREPNA/CLSFSKFRVLGSAP FLINRRTASNCVNRYCRLAATWRAVLPL
5847	13898	A	664	1233	1706	CLVFWLLYYPGQLPFFHLLPHSLGSGQQ SSEESAATPSLAEGRREAAFRCPAGLA RQAWRPHARLPGAAPLAAPSLAPLPTG RSGRWLPMCAASC*SPSPAMSVYPQRR LGQGGAEDEGGPVSRGCRAPGPQRPLA APGEQTAARTQAICLIW
5848	13899	A	6640	464	781	AFAFTKDRQLGSSKKRRMSSRFASSAAK CRAVRPLLRSRFPVPMPPGPWVSSTK LGSRLGRHQASCRG*SQRAR*SGLTGPT HMEPNKVRSTGLKFLPAQQS
5849	13900	A	6641	201	318	EINLTNFCFSSRSDVS*RESPFSRELHRIS SISLEPG

5850	13901	A	6642	1	1714	
5851	13902	A	6643	1	789	
5852	13903	A	6644	1	293	SPEMESHPIQAGVQWHNHSSLQPEIPGL KQSSHLSPSSWDHR*EPLPWPKNIFKM LIL*IGFSHVIGNNGTYLYQSINNVEGPLK RSQKDRSCGN
5853	13904	A	6645	1	252	
5854	13905	A	6646	1	1974	
5855	13906	A	6647	3	320	
5856	13907	C	6648	238	324	MADLPFLVEFSCFIYFNGSFMFSQKK*
5857	13908	A	6649	1	1088	
5858	13909	A	665	598	1159	CRQTGVKIYDVWFFWLLYYPGLQLPFHL LPHSLGSGQQSSESAATPSLAEGRREAA FRCGPAGLARQAWRPHARLPGPAAPLA APSLAPLPTGRSGRWLPLCAASC*SPSP AMSVYPQRRLGQGAEDSEGGSVSRGC RAPGPQRPLAAPGEQTAARTQASVYLL PHSPPLLSALHIHLLPPS
5859	13910	A	6650	1	368	
5860	13911	A	6651	3	243	
5861	13912	A	6652	24	288	
5862	13913	A	6653	2	272	
5863	13914	A	6654	965	2737	AASPGVLVCPQARTYIQLPPLDVLQTP LPTTGFPAAIDLLGRMLVLDSDQRVSA EALAHAYFSQYHDPEDPEAEPPGCGR HKLTLSLHLELTYQEVLSWDEAAGRRS PPPALPPRLRPSGSGPPPAASGFRRW AAPGPAMSSPPPARSGFYRQEVTKTAW VRAGACAGCPAFPLSGPPRSSAVDGRGT AKVAIKKLYRPFQSELFANPARVLCCILN PMWPPQVIGHAEAGSVR*QRSGPSHSYL VMPFMGTDLGKLMKHEKLGALRGCAE ACHHAWEGGAQWPPFLCPHRS LGVP*N PPPQFFPQILDFGLARQADSEMTGYVVT RWSHPVPLPTLSTRASISVDIWSVGCIMA EMITGKTLCSPPGGSGGPDLPWPPSCVP DLGADLDQLKEIMKVADLGLGVGPSFPL PTQAKNYMKGLPEWSVGPPVWPDPAPS PAAVNLLKMLVLDAEQRTVAGEALAH PYFESLHDTEDPQVQKATTDGSPSLSDP HASPGLHGLDVIAISSGATLTCGMAAV HTGPKVWAHRWPEDWGVAFALQTPRPP RLSPQVFLRPGRVGLGAALDPDPGWGA GRDL
5864	13915	A	6655	3	229	
5865	13916	A	6656	27	142	
5866	13917	A	6657	3	308	
5867	13918	A	6658	192	310	
5868	13919	A	6659	88	1506	ACGRFGFPEGPEGGRGRHVRAARGPVG PRAGEGPCAAWVGVPGSAPGTSLREG PGAGAPQRPAGGRASGRAARSPEARA EGAPSPVVGAPPAGSAGWAAPGPAMSS PPPARSGFYRQEVTKTAWEVRAVYRDL QPVGSGAYGAVCSAVDGRGTAKVAIKK LYRPFQSELF AKRAYRELRLKHMREN VIGLLDVFTPDFTLDDFTDFYLVMPFMG TDLGKLMKHEKLGEDRIQFLVYQMLKG LRYIHAAAGIIHRDLKPGNLAVNEDCELKI LDFGLARQADSEMTGYVVTWRWYRAPEV ILNWMRYTQTVDIWSVGCIMAEMITGKT LFKGSDDLQLKEIMKVTGTPPAEFVQR LQSDEAKNNMKGLPELEKKDFASILTNA SPLAVNLLKMLVLDAEQRTVAGEALA HPYFESLHDTEDPQVQKYDDSFDDVDR TLDEWKRVITYKEVLSFKPPRQLGARVS KETPL

5869	13920	A	666	358	644	RRSLALSP...ESDVISAHCKLCLPGFTPF SCLSLSSWDYRCPPLANFFVFLVET GFHRVSQDGLDLLTS*SARLSLPCWDY RCEPPRPA
5870	13921	A	6660	71	921	
5871	13922	A	6661	2	310	
5872	13923	A	6662	5517	5831	
5873	13924	A	6663	1	625	CKFIRVMAHTRLRLPLRRKKAHLMEIQ VNEGTVAEKLDWARERLEQQVPVNQVF GQDEMIDVIGVTGKGYKGVTSRWHTK KLPRKTHRGLRKVACKDGKLIKNNAST DYDLSDKSINPLGGFVHYGEVTNDFVML KGCVVGTKKRVLTLRKSLLVQTKRRAL EKIDLKFDITTSKFGHGRFQTMEKKAF MGPLKKDRIAKEEGA
5874	13925	A	6664	1	1261	MSHRKFSAPRHGSLGFLPRKRSSRHRGK VKSFPKDDPSKPVHLTAFLGYKAGMTHI VREVDRPGSKVNKKEVVEAVTIVETPPM VVVGIVGYVETPRGLRTFKTVFAEHISDE CKRRFYKNWHKSKKKAFTKYCKKWQD EDGKKQLEKDFSSMKKYCQVIRVIAHTQ MRLPLRQNKAHLM*IQVNGGHCGRPS WDWPPREGLKQOGTVDPVLRNKMID VIGVTQGPVKGYKGHPVVWHTQESCP KD/HHPRACRKGHVLGAWHPARVAF SVARAGQKGYHHRTEITKKD/TYKIGPG LSPLFRATAKVIKGTIASTDYDLF*QEASTP PGGFVHYGEVTNDFVMLKGCVVGTKK RVLTLRKSLLVQTKRRALEKIDLKFDIT SKFGHGRFQTMEKKAFMGPLKKDRIA KEEGA
5875	13926	A	6665	1	168	
5876	13927	A	6666	3	203	
5877	13928	A	6667	3	523	LQFFRRSEVKMKNHLLFWGVLAVFIKA VHVKAQEDERIVLVDNKCKCARITSRIIR SSEDPNEDIVERNIRIVPLNNRENISDPT SPLRTRFVYHLSDLCKKCDPTEVELAD NQIVTATQSNICGWMTPQSTCYTLSTG NKCYTAVVPLVYGGGETKMVETALTPDA CYPD
5878	13929	A	6668	3	276	
5879	13930	A	6669	2	152	
5880	13931	A	667	55	288	PFKKGGFFNGNLPTTFGKLGKFKPLNL FPGGPPLPHGGLKKGPGAPQVPPLFLKK PQTSP*GLREGPPPLKKFYLF
5881	13932	A	6670	1	936	
5882	13933	A	6671	1	1023	
5883	13934	A	6672	106	125	KYLEQCLKHGKSS*HSILQANFFASEND RAKMK*KPCFYKCF*AITFLREDWDYRR EPLRLAYPVYFLTCKIRIMYTHLKDYTG H
5884	13935	A	6673	3	155	
5885	13936	A	6674	3	266	
5886	13937	A	6675	5	160	RDLGSLQPPPPGFK*FSCLRLPSPQVQRC CVPSPWLLEQMITAWGASIHNR
5887	13938	A	6676	1586	2220	
5888	13939	A	6677	3	441	
5889	13940	A	6678	1	91	
5890	13941	A	6679	2	226	
5891	13942	A	668	2	385	ARGEPTMELSHADTTNVKAAWGWVGA HAGE*GADVLVRMVLCLPTIWTYFPYFD LSHGCAQVNGHGKKVADALTNVAVHV DDMPNSLIGLSELHAH*LLVDPVNFKLL NHCLLGTLADHLLDEFTPAV
5892	13943	A	6680	3	187	
5893	13944	A	6681	2	209	

5894	13945	A	6682	2	702	FVSVPSVLLGLQFWRSERD/TARLQSAR WRVERGRLKELLSRQRPRRREEVVVGR EVCRTMEVRASLQKIVSNGDEQLEKA MEEILRDFEKRPSLLVDCQSSSEISDHSF GDIPASQTNKPSLQLILDPSNTEISTPRSS PGGLPEEDSVLFNKLTYLGCМКVSSPRN EVEALRAMATMKSSSQYPPVTLYVPN VPEGSVRHLSLLGGGEDVIASSGVELTV NSHCRHAE
5895	13946	A	6683	3	497	
5896	13947	A	6684	1	224	
5897	13948	A	6685	1	789	
5898	13949	A	6686	1	7500	
5899	13950	A	6687	1	8175	
5900	13951	A	6688	3	598	QCGGIRATTMAMSFEPWPQ\YRFPFFFT LQPNVDTRQQLAAWCSLVLSFCRLHK QSSMTVMEAQESPLFNNVKLQRELPVE SIQIVLEELRKKGNLEWLDKSKSSFLIMW RRPEEWGKLIYQVWSRSGQNNSVFTLYE LTNGEDTEDEEFHGLAEKPLLLRALQ/CP YSREHKAEIHHCSGDGRGVQVLLGRDLS PFTS
5901	13952	A	6689	2	356	
5902	13953	A	669	787	896	LLYNIYCGEKKREERKD*PGQHGETPSL QKIQKLAG
5903	13954	A	6690	2	123	
5904	13955	A	6691	161	464	
5905	13956	A	6692	3	86	
5906	13957	A	6693	3	85	
5907	13958	A	6694	2	201	
5908	13959	A	6695	1	119	
5909	13960	A	6696	1	3414	MEPNDSTSTAVEEPDSLEVLVKTLDSQT RTFIVGAQMNVEKFEKHIRASVSIPSEKQ RLIYQGRVLQDDKKLQEYNVGGKVIHL VERAPPQTHLPSGASSGTGSASATHGGG SPPGTRGPGASVHDRNANSYVMVGTFN LPSDGSADVHINMEQAPIQSEPRVRLV MAQHMIRDIQTLLSRMETLPYLQCRGGP QPQHSQPPPQPPAVTPEPVALSSQTSEPV ESEAPPREPMEAEVEERAPAQNPELTPG PA
5910	13961	A	6697	1	441	
5911	13962	A	6698	2	180	
5912	13963	A	6699	1	143	
5913	13964	A	67	1016	1461	VSHSHLSSPQFNHLNRRPTRIPLSPQPK* GPAYSRPPVWTPAEPEALRWGRHRGP*K ARGSRPSSAHSGWRPRGEAPHRTGTAQP PTAVPCRRHLGEDSTPGPPGALGGVGF PSASP/PVPTPT*TQTGRRPETQLRQQTPR GAPRA
5914	13965	A	670	539	786	SIGRLRRVGHLRSGVRDQPGQHGGTPSL LKIQKFAGHGGAFLYSQVLGRLRQENRL NSRGGGCSESGSQHYTPAWVTE*DSI
5915	13966	A	6700	2	1069	SLVERLKMAASQAVEEMRSRVVLGEFG VRNVHTTDFPGNYSGYDDAWDQDRFEK NFRVDVVHMDENSLEFDMVGIDAAIAN AFRRILLAEVPTMAVEKVLVYNNTSIVQ DEILAHRLGLIPIHADPRLFEYRNQGDDE GTEIDTLQFRLQVRCTRNPHAAKDSSDP NELYVNHKVYTRHMTWIPLGNQADLFP EGTIRPVHDDILIAQLRPGQEIDLLMHCV KGIGKDHA\KFSPVATASYRLLPDITLLEP VEGEAAEELSRCFSPGVIEVQEVQKKV AQSCPTPRLD\TFSREIFRNEKLKVVRL ARVR\DHYIFSVES\TGVLPPDVLVSEAIK VLMGKCRRFLDELDAVQMD

5916	13967	A	6701	197	310	WLCYIIYK*YDNWWHSMCFSKPLYPEIV SLNYILLKG
5917	13968	A	6702	3	67	
5918	13969	A	6703	3	517	
5919	13970	A	6704	150	840	GSLLSPDMANKGPSYGMSREVQSKIEKK YDEELEERLVEWIVQCGPDVGRPDGRGR LGFPVWLKNGVILDRL*TTFTPDASKPV KVPEKPPSCSSSKTEPLPHFLKAAEYD GVRPKSNIFQDL*TSKKGKDMGSSSRGP LMAFGQLWQVTKNVDGHYRGDPNWFY ERKPQQHKREFHRRALQKKGACPLAL PDGAANRRGPPQARH*QGYGTTLGQIIK LEAERAKP
5920	13971	A	6705	3	842	
5921	13972	A	6706	1	570	
5922	13973	A	6707	1	1437	
5923	13974	A	6708	3	286	
5924	13975	A	6709	172	364	FYLYLVMLCFIEPVKLLIVGAYIL*LLKT IHEFHNQCFVDTKSLKGRHFKEYVFFTL NMFHR
5925	13976	A	671	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
5926	13977	A	6710	1	683	
5927	13978	A	6711	18	292	
5928	13979	A	6712	1	687	
5929	13980	A	6713	1	119	
5930	13981	A	6714	1	339	
5931	13982	A	6715	3	470	
5932	13983	A	6716	2	2942	TGAPAWPSRRLRDL PAGGMWRLRRAA VACEVCQSLVKHSSGIKGSPLQKLHLV SRSIYHSHHPTLKLQRPQLRTSFQQFSSL TNLPLRKLKFSPIKYGYOPRRNFWPARL ATRLLKRLYLILGSAVGGGYTAKKTFDQ WKDMIPDLSEYKWIVPDIVWEIDEYIDFE KIRKALPNSEDLVKLAPDFDKIVESLSLL KDDFTSGSPEETAFRATDRGSESDKHFRK VSDKEKIDQLQEELLHTQLKYQRILERLE
5933	13984	A	6717	38	359	
5934	13985	A	6718	122	282	
5935	13986	A	6719	2	1010	
5936	13987	C	672	336	728	MGLPKTGHQQHFPQELESSRIPHAGLS QVQVHFRLGQRCPLRSSQVLLWHLPRK VSTFLPCALTLGVAHWQRQRTGCQSC QRTSGSMGRQPGAFPGFLLQHLSTFTLP HRLCDSSLVLLCEMTHGRLD*
5937	13988	A	6720	326	513	
5938	13989	A	6721	1	1076	
5939	13990	C	6722	11	79	MLPILRHTFLRVTLRGKKACLL*
5940	13991	A	6723	3	198	
5941	13992	A	6724	1	432	
5942	13993	A	6725	123	336	
5943	13994	A	6726	1	227	
5944	13995	A	6727	1	131	MPVLLTSDEMHKSSVKAGFAKVDQQQA PKSVQLLTVKTRDSTSNRGNNGSPRSQAT DRICRTPYHFEDC*SGSTASPVSSASDS EDKRLNK
5945	13996	A	6728	3	364	
5946	13997	A	6729	2	197	
5947	13998	A	673	1	1254	
5948	13999	A	6730	2	421	
5949	14000	A	6731	33	294	

5950	14001	A	6732	2	670	
5951	14002	A	6733	1	171	
5952	14003	A	6734	1	789	
5953	14004	A	6735	3	363	
5954	14005	A	6736	2	379	
5955	14006	A	6737	116	373	
5956	14007	A	6738	1	164	
5957	14008	A	6739	3	122	
5958	14009	A	674	1	921	
5959	14010	A	6740	83	2455	
5960	14011	A	6741	83	2450	IRIAALDDFRTSLTMSSTRSQNPGLKQI GLDQIWDDL RAGIQQVYTRQSMASRY MELYTHVYNYCTSVHQFVGLLEYKRLK EFLKNYLTNLLKDGEDLMDESVLKFYTQ QWEDYRFSSKVLNGICAYLNRHWVRRE CDEGRKGIYEIYSLALVTWRDCLFRPLN KQVTNAVLKLIKERNGETINTRLISGVV QSYVELGLNEDDAFAKGPTLTVYKESFE SQFLADTERFYTRETEFLQONPVTEYM KKAEARLLEEQRVQVYLHESTQDELA RKCEQVLEIKHLEIFHTEFQNLDDADKNE DLGRMYNLVSRIQDGLGELKKLETHIH NQGLAAIEKCGEALNDPKMYVQTVLD VHKYNALVMSAFNNDAGFVAALDKA CGRFINNNAVTKMAQSSSKSPELLARYC DSLLKKSSKNPEEALEDTLNQVMVVK YIEDKDVQKFYAKMLAKRLVHQNSAS DDAEASMISKLKQACGFYTSKLQRMF QDIGVSKDLNEQFKKHLTNSEPLDLFSI QVLSSGSWPFQSQCTFALPSELSYQRF TAFYASRHSGRKL TWLYQLSKGELVTN CFKNRYTLQASTFQMAILQYNTEDAYT VQQLTDSTQIKMDILAQVLQILLKSKLLV LEDENANVDEVELKPDTLIKLYLGYKNK KLRVNINVPMKTEQKQEQTTHKNIEED RKLIIQAAIVRIMKMRKVLKHQQLLGEV LTQLASSRFKPRVPVIKKCIDILIEKEYLAE RV DGEKDTYSYLALTL SGKGLDLCDPQ QIVHVGKE
5961	14012	A	6742	3	318	
5962	14013	A	6743	17	174	
5963	14014	A	6744	3	711	LSSCLCGSGKAFGMPTMRLLSFVVLALF AVTQAEEGARLLVSKSLNRYAVEGRD LTQYNIYVNGSSAALDVELSDDSFPPEP FGIVSGMLNVKWDRIAPASNVSHTVVLR PLKAGYFNFTSATITYLAQEDGPVVIGS TSAPQGGMVLVQREFDRRFSPHFILDW AAFGGHDPFPPSGIPLLLWYSSKRKYDT PKTKKNLIWGFHKPSSPKSKAPLPKKP QVLSQTPKGY
5964	14015	A	6745	74	471	
5965	14016	A	6746	1	1371	MAENDVDNELLDYEDDEVETAAGGDG AEAPAKKDVKGSYVSIHSSGFRDFLKLP ELLRAIVDCGFHPSEVQHECIPQAILGM DVLCAKSGMGKTAVFVLATLQQLPEV TGQVSVLVMCHTRELAFQISKEYERFSK YMPNVKVAVFFGGLSIKKDEEVLLKNC PHIVVGTPGRILALARNKSLNLKHIKHFIL DECCKMLEQLDMRRDVQEIFRMTPEHEK QVMMFSATLSKEIRPVCRKFMQDPMEIF VDDETKLT LHGLQYYVVKLDNEKNRK LFDLLDVLEFNQVVFVKSQVQRCIALAQL LVEQNFAIAIHRGMPQEERLSRYQQFK DFQRRILVATNLFGRGMDIERVNIAFN DMPEDSDTYLHRVARAGRFGTKGLAI TFVSDENDAKILNDVQDRFEVNISELPD EIGHLLPTLEQDTVEDSPILGMLTVCSFQ

						GGGTPGW
5966	14017	A	6747	2	139	AGSELGEGEEVGLSYL/DERTNSEEGGL RGEKRKRDAENDGEEDE
5967	14018	A	6748	3	270	
5968	14019	A	6749	21	301	
5969	14020	A	675	659	1601	SRASSSVVPLALPSLQVTFHPLNEGTLAV ASSMLSSFQPEIGTNATVLGL*PIFLM*VL TSLTISSYLFWL/RGWLSGTTLLEALDCIL PPTRPDKPLGLPLQDVYKIGGIGTVPVG RVETGVLKPGMVVTFGPVNVTEVKSV EMHHEALGEALPGDNVGFNVKNVSVKD VRRGNVAGDSKNDPPMEAAGFPAQVHIL NHPGQISAGYAPVLDCHTAHIACKFAEL KEKIDRRSGKKLEDGPKFLKSGDAAIVD MVPGKPMCIVESFSYDYPPLGCFAYRDMR QTVAVGVKAVDKKAAGAGKVTKSAQ KAQKAK
5970	14021	A	6750	4	366	RHRVSLYPSE/WSAVAQTHSSL*P*APWE LK*SF*LSPSS*K*RSIQLCPG*LRNFFFF/ CGRDGVLMLSMVFNSTQVMLLPQPP QVLGLRVELDDTFLKVSSLVLFCLKQGY KKRIWNP
5971	14022	A	6751	3	263	
5972	14023	C	6752	54	161	MLPSIQITVEKRMNVFQYSQDAGFSPVNI VFTIGR*
5973	14024	A	6753	161	1122	
5974	14025	A	6754	1	891	
5975	14026	A	6755	2	104	
5976	14027	A	6756	957	1285	HGTRRRRDVIMREFRSRVKVRVLITDDL LGSRGLMCNNVSLVIN/YMDLPTNREN YIHRIGRGGSNLGGKGVAINFCYLKTR GFLRDIETFLPILQWRRMPMKCGLTLF
5977	14028	A	6757	1	716	
5978	14029	A	6758	2	835	FLSVLPHSRALLTPKRAPKKKMAISGVP VLGFFIILVMSAQESWAIKEEHVIIQAEF YLNPDQSGEFMFDFDGEIFHVDMAKK ETVWRLEEFGRFASFEAQGALANIAVDK ANLEIMTKRSNYTPITNVPEVTVLTNSP VELREPNVLICFIDKFTPPVNVNVTWLRNG KPVTTGVSETVFLPRENTLFR/KFHYFP FLPPTEDVYDFRVEHWGLDEPLLKHWE FDAPSPLPKITTENVVACALGLTVGLVGIII GTIFIHKGNRKSNAAEERRGPL
5979	14030	A	6759	759	1022	PTQGQRKGTSHLGGGADAGCTAAEPPG GTAAASGAGAGRAGD*HPGTGAQHHP PAVPGEAPGEETQGQVQEEPAEAQGWWQ PHOPPF
5980	14031	A	676	1	1335	
5981	14032	A	6760	2	689	
5982	14033	A	6761	2	1011	
5983	14034	A	6762	2	151	

5984	14035	A	6763	3	740	RPIGEFRSNADYQYQLLRNVDLLKIIQL GLTFMNEQGEYPPGTSTWQFNKFNLTE DMYAQDSIELTTSGIQFKKHEEEGIETQ YFAELLMTSGVVLCEGVKWLFSHSGYD FGYLIKILTNSNLPPEEELDFEILRLFFPVI YDVKYLKMSCKNLKGGLOQEVAEQLAE LERIGPQHQAGSDSLALTGMAFFKMREM FFEDHIDDAKYCGWLYGLGSGSSYVQN GHRGMHMEEGSQQGSPTWK
5985	14036	A	6764	296	522	IWVFHNLKGLFEIFCCILKYFLEELLILF* KTKL*KHASFLKNNPSIQDMESSTTVHRS GLGGSCLCADVLSLQWL
5986	14037	A	6765	3	333	
5987	14038	A	6766	1326	1980	TSEASRQSERVDSAALSALLSRSSKCR PWGTARVARAGGCLTPLLRRFLETRPF TGPWDPGLGVTWCWCCPPKRRLKSTPRPK FSVCVLGDQHCDEAKAVDATFEVCLG DQVLSNANGFLSLSAKKYDAFLASESLI KQIPRILGPGLNKAGKFPSSLREEGQAIC YSSTNLT*SSLPSQVLCLAVAVGHVKM TDEL VYNHLAVNFLVSLK
5988	14039	A	6767	11	713	EAMSSKVSRDTLYEAVREVLHGTQRKR RKFLAETVELQISLKNYDPQDKRFSGT VRLKSHSPALSFSVCVLGDRQHCDIEA KA\VDIP\HMDNEALEKTSTKNKLVKK AGQRKYDAVFGPQSLLIKQIPRIPRAGL NKAGKFPASLLTHNENMVAKVDEVKS PIKFQMKKVLCLAVAVGHVKMTDEL VFNIHLAVNFLVSLK\KNWQKCSGAL YYQEAPMGQSPKRLY
5989	14040	A	6768	2	277	
5990	14041	A	6769	1	336	
5991	14042	A	677	1	811	
5992	14043	A	6770	132	347	
5993	14044	A	6771	3	109	
5994	14045	C	6772	5	160	MGFEGGPKILNWKFKKVXQXSCLXKG QXESIFLNTXKVIRAGDTXKSVLG*
5995	14046	A	6773	52	310	YIIRTQTQISHPLHYILGSAKKKLCFGKS YFIRGSSFRKGQGHEERGLKYKKKTGEG V**KRTKKQTKTKTKTIKYLSCCGNV
5996	14047	A	6774	149	333	
5997	14048	A	6775	1	1616	LFFFFFFLESTRFY*FFFFFFFTIQTFGG PLSPFFLLFFIKPLQFFFFIL
5998	14049	A	6776	2	138	ASGHREVQDSYEAYGQDDWNGTITSLK/ APPARPVKGAYREHPYGRY
5999	14050	A	6777	1	1212	
6000	14051	A	6778	3	150	
6001	14052	A	6779	2	1622	ASVATAPALPPPPTAARASVAAASLSRSL DRTSSQMQRDDPAARMSRSGRSGSM DPSGAHPSVRQTPSRQPLPHRSRGGG GSRGGARASPATQPPPLPPSATGPDATV GGPAPTLLPPSATASVKMEPENKYLPEL MAEKDSLDPSTHAMQLLTAEIEKIQKG DSKKDDEENYLDLFSHKNMKLKERVLP VKQYPKFNFGKILGPQGNITIKRQEET GAKISVLGKSGMRDKAKEEELRKGDP KYAHLNMDLHVFIIEVFGPPCEAYALMA HAMEEVKKFLVPDMMDDICQEQLS YLVGVPEPSRGRGVPRGRGAAPPPPV PTGRGVGPPRGALVRGTPVRGAIIRGAT VTRGVPPPTVRGAFC*ARTAGIQRIP LPPPPAPETEEYGYEDTYAEQSYEGYE GYYSQSQGDSEYYDYGHGEVQ\DSYEA LWPRTNWNTRPISLKAPLARPVKGAY REPPYGRLLKTKHEGENISYEQSLLLDFL YLPGIPVALPTTDQGNWSKCFRRGSPSF SPTLIPFL

6002	14053	A	678	269	561	LSFVGSLSRLTAGFAECPRFRFPAPNP RTPSTRNSAPDSQKGATWATAVQAAPR WT*ETGSNPWPTLAAPCSRSPRGPPASFS GGPSASCKLCLK
6003	14054	A	6780	1	76	
6004	14055	A	6781	1	287	CFL*DRVLLCHPGWSAVAHNHSSLP*T PGIKQFSLRL/SSS*DYRCTSPYLAIFFF *VFCRKQSLATVPTISNSWPQAILLSWS KHVEITGF
6005	14056	A	6782	3	64	
6006	14057	A	6783	2	69	
6007	14058	A	6784	1576	3458	
6008	14059	A	6786	1	960	
6009	14060	A	6787	507	755	NKRGYKQMEEHSMMLGRKNQYRKNGH TAQGNL*IQCHPHQATNDLHRIGKNDL QVHMEPKKSPHRQVNPKEQSWRHHA T
6010	14061	A	6788	274	882	PDQVDRGGAHWQTDADDPWLADHLQH CQRCGEILRHYSGGIRGNVSAVKCAEHH VPAFARLRNPQCGDFQRLDYRLFDSPGV KRREL*TAYRFCHVAP*LMDLRSGWAA GAVYRYQSH*FTADRLRSVDMDEAGN HHSQQT/SQDQKIKQRTFSLISGS*TRTH GHREGNITHRGLSRPNTARILCASKAHL GLPLRSSLP
6011	14062	A	6789	114	329	
6012	14063	A	679	415	1094	SKSRMSAEVIHQVEEALDTEKEMLLFL CRDVVAIDVVPNNVRDILLITERGKLSV GDLAELLYRVRFDLLKRLKMDRKAVE THLLRNPHLVSDYRVLMAEIGEDLDKSD VSSLIFLMKDYMGKGKISKEKSFLDLVV ELEKLNLVAPDQLDLEKCLKNIHRIDLK TKIQKYKQSVQGAGTSYRNVLQAAIQKS LKDPSSNNFRMITPYAHCPDLKILGNCSM
6013	14064	C	6790	1	1983	MGDGTSDFDPIGDIGIRQSNYSCGGCPRI PYVWRVTGRAHGTQTIIVFMAKVYYG NVMRREKDSGGAWGNPWAGILLPPPST RNCTVHSSFSNENIFPQHTSSCVVHNQ YIGADFPWSNFSFVVEYNYVEDSCWTK HCKELNIPYMAFKVILPDTVLERSTLLDR FGGFLEIQIPYVFFASEGLLNTPDILQLL ESKDMDEAGNHSEQTVTRTENQTLHV LTHRWELNNENTWTQDGEHHTPGPVVG WRELIIAPGVEATALIIRQIADHSLMTSKR DPHEWLDKSWLVSPSEENRNQISTLSS QSSASDLDSVIEHNEYQYLGLGETVQ EDKTTILNDNSSIMELKEISSFLPPVTSYN QTSYWKDSSCKSNIGQNTFPLINIESRRP AYNSFLNHSDSESDVFSGLTQMNCETI KSPTDTQKRVSVPFINSQKRRTHEAK GFINKDVSDPIFSLEGTQSPLHWNFKKNI WEQENHPFNLOYGAQQTACNKLYSQKG NLFTDQKCLSDSEGLTCESSKDETFW RELPSVPSLDLFRASDSNANQKEFNSLYF YQRAGKSLGQKRHHESFNSGDKESLTE EKTEAQEKMTTEDRGRGWGYATTNRR MPRIAGNHQEPGERRGTPPPSEAPEGSNP ANTLILDFPPPEL*
6014	14065	A	6791	190	486	FLLHFFLHD*YSSNKLQKVNKSIPPTGPS LCPCVLIVQLPLMSENMRCLVFCSCVSL LRMMVSSFIHVPLNFFNAFLLLNFFRFCP LLSCHMIKKSSS
6015	14066	A	6792	1	597	

6016	14067	A	6793	1	721	MTSYNEQNKKPVTDPNEMAIHEDSNQE FKIAVVNETQSRSPSPTEHLMTPPPLPT REQQPPLTVIFHYLPKSYKTAPPLSPFPDS LFGLSQPAPRDMDEAGNHHSQQTKQEQ KTKHCMFSLTSGS*TMRTHGHREGTVIH RGLLGQFSQQLINKSEFSNTVCREKSGR VLQVNME SPL*MIQDALQDQTPKGPIT VFL*LFYLDHLLRSSHKVASYLSTESRSR GSITVLFIRCSEP
6017	14068	A	6794	417	696	DRNRKANTACFQHSQVGVEQ*EHMDTG KV*SI*YGNYEHTSTCERMEIQKATTEHL NL*S*SGSFLRFTWKMLQFSKISRSFYQV LKHQQKIM
6018	14069	A	6795	325	1489	RSPTLLMHVHYIKVISWRELLIWLRAA NASINPGVEQSPSGDPKTVTGFPFLRLEA ADWVEEASVPKGVHIALSSQEQRAGDP RDLEAPSNLVISERTHRFRVSWTPPSDS VDRYKVEYYPVSGGKRQEVVTRPGVPD LRLPAIIPQAAWLLAHLPAAPSAPTELPT KHTEAQSORCWSLLCSVTEVAAPSQV VKEAPPSFHTGTENG YQGEESLFNKAYY GGGTNFFRKESQKLQOSAKKRDAELAN GALGIELNNDYTLKKVMKPLITSNTVTD EIERANVFKMNGKWYLF TDSRGSKMTI DENKIPRNPTYKGREGPLQGE LQTTAQQ NKRGYKQMEEHSMLMDRKNQYRENGL TAQA/PQPPPSGI*GYTAPCFPWENLI
6019	14070	A	6796	274	716	QACYIYTTEYYAAIKNDEF/TVLCRDM EAGNHHSQQTVTRTKNQTPHVLTHRWE LNNENTWTQEGEHHTPGPVMLDSAPPTL GHQTPGSSAFGLWDLHQRLRLRPQTKG STVGFP GSEAFKLGLGHYWLSFFPSLQT AYRGTLPFNH
6020	14071	A	6797	1	870	
6021	14072	B	6798	328	2283	MKLEAIIILSKLTQEQKNQTLHVLTHRWE LNNENTWTQGGEYHTLGPVDGFQKKEE AAIGAILQPLLVIQTVLGVDLQQT LADLQ QRGLLEEKLTNRKKIAHTVRDHIQREHN SSPAREQNWMEN TFD ELTQVGFRRWVI NSSELKEHDLTQCKKG TWMMLETIIFSK LTQEQKNQTLHVLTHKWELNNENTWTQ GGEHHTLGPVWRMFQIYVVAERMLDKI PSLAFGLDLRQWFARGCWSFGHRLKA ARITAPRLAREQNWMENEFDKLTEVVFR RWVITKSKLKEHALTQCKEDKNLEKKEL ATQQKMSSRTASEASSVFTATPHCYHYY LSSASYHISGSIRFPVLEKIRLHMGL ENK CKVLLSGGSSSQMQMYGDLEGGWNGKV VFPWSWAVQEPASPPTTLGQISLTVCCST VNGLPASVDVFFCREALPRNLQKFP AKD LGCILLQYIDNLLGYSTAVGCARRMDA LLRHLEDCGYKVSKKKAQICRQQTEGEQ TIRERWIKLSDGRIAVPQLLGA AVVLAV HKTIHLGQESLEKLLGQYFYISHLPALAK TVAQQCVTCQQRHAKQGSPVPGIAY RVASFENLQVDFTEMPKCGDQGLERGST VALVEGTPDHYPDHSYSYKGRNPKLD SHSCVKPATAKT*
6022	14073	A	6799	2	472	
6023	14074	A	68	241	492	GGQIMRSGY*DHPG*/HGETRSLKIQKL AGHGGRHL*SQLLRRPRLENRLNLGGRG CSEPSSRHCTAAWATE*DSVSKKKKSRR

6024	14075	A	680	551	1706	SKSRMSAEVHQVEEALDTDEKEMLLFL CRDVAIDVVPNVRDLDIFTRERGVLS VGDLAELLYRVRFDLLKRLKMDRKA VETHLLRNPHLVSDYRVLMAEIGEDLDK SDVSSLIFLMKDYMGRGKISKEKSFLDL VVELEKLNLVAPDQLDLLEKCLKNIHRI DLKTKIQKYKQSVQGAGTSYRNVLQAAI QKSLKDPSNNFRLHNGRSKEQRLKEQLG AQQEPVKKSIQSEAFLPQSPIEERYKMK SKPLGICLIIDCIGNETELLRDFTSLGYE VQKFLHLSMHGISQILGQFACMPHERDY DSFVCVLVSRGGSQSVYGVDTQTHSGLPL HHIRRMFMGDCPYLAGKPKMFFIQNY VVSEGPAGEQQPLGGWWMQOR
6025	14076	A	6800	1	239	QCCSGGTHGNPAIGDRMQKQILPWAPA QMKIRFMAPPERKYSVWIAAPILASLSTS SRMWISKQEYDESGPSIVHRKCF
6026	14077	A	6801	2	440	TGIVMDSSDGITHTMPYIEGYTLPHAILP LDLAGQDLTDYFMKILKEGGYSFTTTAE REIMLDIKEKLCYITLDFEQEMATAASSS SLEKS*ELLNGQVITISNQWFHCP/EYLFQ PSFFTSIMKCDVDICKDLYANTVLSGGT TMY
6027	14078	A	6802	2	212	
6028	14079	A	6803	3	443	
6029	14080	A	6804	1	1470	MSTRPRRPPQLGRSTGRARLASRVAAAA GPPGARAPLAGDRAPAAGAPRRAGAGP CRPDPFPPAAGPTRGSPREGGKTGNRGK EREKGRRASQLAFADPPPVATRRQLTMD DDIAALVVDNGSGMCKAGFAGDDAPRA VFPSIVGRPRHQGMVGMGQKDSYVGD EAQSKRGILTLKYPIEHGIVTNWDDMEKI WHHTFYNELRVAPEEHPVLLTEAPLNPK ANREKMTQIMFETFNTPAMYVAIQAML SLYASGRTTGIVMDSGDGVTHTVPIYEG YALPHAILRLDLAGRDLTDYLMKILTER GYSFTTTAEREIVRDIKEKLCYVALDFEQ EMATAASSSSLEKSYELPDGQVITIGNE RFRCPALFQPSFLGMESCGIHETTFNSI MKCDVDIRKDLANTVLSGAVTMYPG IADRMQKEITALAPSTMKUKIAPS*RK YSVWIGGSILGLLSTFQQMWISKQEYD ESGPSIVHRKCF
6030	14081	A	6805	171	393	GKPKPKPKPLPKPSREISHIP*GL*KAGP FRAPGRPGCKPCWLGPSGPGGR*GCP*K ASPEKVLGENLTLKNP
6031	14082	A	6806	3	264	SRRGSSPAQGS LGRPQLLSAQYKWVGV GGDRVSL*TM DPSLAPKTNQRASQSKLD LQPA*APWP/PQLCGHPVPSPASCPKSPTF KPT
6032	14083	A	6807	1	632	
6033	14084	A	6808	1	591	
6034	14085	A	6809	783	1516	
6035	14086	A	681	76	158	
6036	14087	A	6810	1	951	
6037	14088	A	6811	122	271	
6038	14089	A	6812	3	132	
6039	14090	A	6813	3	302	
6040	14091	A	6814	2	2158	
6041	14092	A	6815	2	186	

6042	14093	A	6816	1	866	MMEAIIKKKMQMLKLDKENALDRAEQAEAEQKQAEERSKQLEDELAAMQKKLKGTEDELDKYSEALKDAQEKLELAEEKKAA DAEAEVASLNRRIQLVEEELDRAQERLATALQKLEEAEKAADESERGMKVIENRAL KDEEKMEQLQEIQLKEAKHIAEEADRKYEVARKLVIEGDLERTEERAELAESKCSE LEELAKNVTNNLKSLEAQAQEKYSQKEDKYEEEIKILTDKLKEAETRAIEFAIERSVA KLEKTNDDELEDFVAQKLKYKALSEELDHALNDMTSI
6043	14094	A	6817	1	639	
6044	14095	A	6818	1	1710	
6045	14096	A	6819	764	1203	FWLVVSFWVPCNTHHTTSKSTSFSSPSTQ ATRFQVL/WFVIKASIIQGYCIARERKEFT HPVGRLSCLRQKLYNGTTETVTSWSSNH TERNPFSKFKLRTVWTHPESHDRDWTAP TGLYWICGHRFAKL PDESAGIGGPKQG AIGIKE
6046	14097	A	682	1	2313	
6047	14098	A	6820	24	225	ARQAQAWFWAWRWAACLVFYFLVVS *NRY*VSNMKNIRSLSSLNSSCKF/WS TRQK*IPKMLS
6048	14099	A	6821	1	1752	
6049	14100	A	6822	110	203	
6050	14101	A	6823	76	353	
6051	14102	B	6824	64	930	MLRSVWNFLKRHKKKCIFLGTVLGGVYI LGKYGQKKIREIQEREAAEYIAQARRQY HFESNORTCNMTVLSMLPTLREALMQQ LNSESLTALLKNRPSNKLIEWDLKISFT RSTVAVYSTCMLVLLRVQLNIGGYTYL DNAAVGKNGTTILAPDVQQYLSSIQH LLGDGLTELITVIKQAVQKVLGVSLSKHS LSLLDLEQKLKEIRNLVEQHKSSSWINKD GSKPLLCHYMMMPDEETPLAVQACGLSPR DITIKLFHKTEDMLGSPDFRQFLNTCFK PRF*
6052	14103	A	6825	385	666	
6053	14104	A	6826	701	930	VAERQTGTGQGTVDITDRATSM*MRQ RRGCCFATCC/FRHEGVVPVWQGRYHD HEGGFPRARLIHCTPDVLTYPYHV
6054	14105	A	6827	248	719	TDEPSLLSHTFCPKGALLSACSGACPLSS GTQAGMPPSTEALQPCRGLTVPHQQDK GHRACC/VWKALAADWSVEWQKGRRG LGKALSVTSR/IRATSM*MRQRRGCCFAT CC/FRHEGVVPVWERGYHDHEGGFPRAR LIHCTPDVLT PAISPNVGNSTA
6055	14106	A	6828	1	2489	
6056	14107	A	6829	227	547	FHNKCPRRLES LRQQISIFGMPENHLLKM QILRSAPDSLDFPCAGPLHLGEELLHRV EQVGAEVARVQQDFVL*GDMVEHLPRP GRQAESTPPTVPGNPPETLRRR
6057	14108	A	683	788	926	PSPELPEGDFEGFFPQKLQ*SCLPTLQKK KNNNNNNNNNNNNNNNEK
6058	14109	A	6830	3	433	
6059	14110	A	6831	37	360	
6060	14111	A	6832	280	1816	
6061	14112	A	6833	3	251	GGALRLHQVPPALPLRGAVSGAAAVQG MSDCTPCCEVHLLQD*VPAGEARVQWH DLGSLQPPPPRFKRFSCILPSSWDYRH
6062	14113	A	6834	3	251	GGALRLHQVPPALPLRGAVSGAAAVQG MSDCTPCCEVHLLQD*VPAGEARVQWH DLGSLQPPPPRFKRFSCILPSSWDYRH
6063	14114	A	6835	2	340	
6064	14115	A	6836	220	412	

6065	14116	A	6837	425	619	
6066	14117	A	6838	1	684	MESQEPTESSQNGKQYIISEELISEGKWV KLEKTTYMDPTGKARTWESVKRTTRKE QTRDGVAVIPVLQRTLHYECIVLVKQFR PPMGGYCIESPAIGLIDDGETPRKQLLSR ELEEEETGLQRGPLPEC/SLPAVCMGPQAC PNCTIHIVTV/TPINGDDAENARPKP/KSP GDGEFVEVISLPAKNDLLQRLDALVAEE HPSGTPRVYSYALAL\KHANAKPFEV PFLKF
6067	14118	A	6839	3	194	
6068	14119	A	684	242	437	KSCFFCLIRCYDSLPLPLLNNFFFLGTES CSVAQAGVRWLNLSSTSGPLGSPINSP ASAS*AA
6069	14120	A	6840	1	168	
6070	14121	A	6841	3	191	
6071	14122	B	6842	15	377	MAALCRTRAVAAESHFLRVFLFRPFRG VGTESGSESGSSNAKEPKTRAGGFASAY GAARRSFYRRWSPYRKVEPGRGSPKKC GILCIYAETILPLTTDGTLLQTTKLHVHTG SFIFVENDL*
6072	14123	A	6843	2	205	
6073	14124	A	6844	1260	1628	SFLCLVSCFSNFS*NCSRPFVSLSLKDFDV FVLFCDGVLLCHPGWIAVAQSRLTTAST SRIKRFSCLTIRSSWDYRRPPPCPADFCIF SR/DRGFTMLARLVWNS*PQVICPPPPK VLGLQA
6074	14125	A	6845	3	629	
6075	14126	A	6846	15	241	
6076	14127	A	6847	93	172	
6077	14128	A	6848	3	82	
6078	14129	A	6849	2	237	
6079	14130	A	685	1	1254	
6080	14131	A	6850	407	529	
6081	14132	A	6851	2	383	
6082	14133	A	6852	1	444	
6083	14134	A	6853	1	279	
6084	14135	A	6854	3	989	
6085	14136	A	6855	1	318	
6086	14137	A	6856	1	397	
6087	14138	A	6857	15	95	
6088	14139	A	6858	3	350	
6089	14140	A	6859	118	325	
6090	14141	A	686	73	1553	PLKAKMGKEKTH\NTVVIGHVDSGKST TTGH\LIYKC\GGNDKRTIEKFEKEAAEM GKGSFKYAWVLDKLKAERNRGITIDISL WKFET\SKYYVTYPFAPGH\RDYFYPKT WITGDIFRLDWFGGPPFWGGSPLIVAAG\ VGEFEAGYLPRNGADPERHALLAYTLG CETTKLSGVNKNIGIPLEPTPTAQKKILKEI VKGKSALTLRKIGYNPDTSSILCPISGWN GDNMLEPSANMPWFQGDGKVTRKDG NASGTTLEALDCILPPTRPTDKPLGLPL QDVYKIGGIGTVPGRVETGVLKPGMV VTFGPVNVTEVKS\VEMHHEALGEALP GDNVGFNVKNVSVKDVRRGNVAGDSK NDPPMEAAGFPAQVIILNHPGQISAGYAP VLDCHTAHIACKFAELKEKIDRRSGKKL EDGPKFLKSGDAAIVDMVPGKPMCVESF SDYPLGCFVRDMRQTVAVGVKAQVD KKAAGAGKVTKSAQKAQKAK
6091	14142	A	6860	1	135	
6092	14143	A	6861	1009	1140	
6093	14144	A	6862	3	416	
6094	14145	A	6863	4	252	

6095	14146	A	6864	3	130	
6096	14147	A	6865	1	1590	
6097	14148	A	6866	1	595	GTRRLAPTAQRKRDENQSVKPEPGRGAS VRGGNLQTL PAGGDFLT CPSARD FRRVP AGQTQVPAAETA VEPVPAVVAGARGGR VMSEPPQPRGAERDLYRDTWVRYLGYAN EVGEAFRSLV PARVVWLSYGVASSYVL ADAIDKGKE/ELERCPALEASRSARVTVA VVDTFVWQALASVAIPGFTINRVCAASL YVLGT
6098	14149	A	6867	2	453	
6099	14150	A	6868	1	265	
6100	14151	A	6869	46	194	
6101	14152	A	687	67	408	KAAGKRGDFKTEGAYQRQRTIFKNKKR ARREKTGRENLRGNYKNMGRGLKTPRG ALGGPYLDKKGPLRGKGPFGGTLSSS PKIKIQGTL*IRRNYWPYIRRYNRFKKRQ KNM
6102	14153	A	6870	4	228	
6103	14154	A	6871	1	288	
6104	14155	A	6872	1	885	
6105	14156	A	6873	532	687	
6106	14157	B	6874	158	3331	PRPPAAGEAQAADNMHQQQQQQQKA GEQQLSEPEDMEMEAGDTPPRITQNP VINGNVALSDGHNTAEEDMEDDTSWRS EATFQFTVERFSRLSESVLSPPCFVRNLP WKIMVMPRFYPDRPHQKSVGFLOQNA ESDSTSWSCHAAVLKIINYRDEKSF SR RISHLFFHKENDWGFSNFMAWSEVTDPE KGFIDDDKVTFEVQADAPHGVAWDS KKHTGYVGLKNQGATCYMNSLLQTLFF TNQLRKA
6107	14158	A	6875	589	732	
6108	14159	A	6876	1	799	
6109	14160	A	6877	2	470	
6110	14161	A	6878	3	204	
6111	14162	A	6879	367	551	EHSTLKLPHYHTQEAGAAPGPTGTD SHEV DHLEGGAGKEAGPCA*SLGTMVAPVRS NSGSPE
6112	14163	A	688	10	386	AGAAAIGEPMA*RGEHPPWSVDERAD STNVNNWHWTERDASHWSTDKLKTLFL AMHVQNEERNGEATEVSKLDGEASINN RIGKLMFFYEWGVTL DWTGAS*SGVPY KGHVEIPYLADENCVDE
6113	14164	A	6880	24	547	
6114	14165	A	6881	1	828	
6115	14166	A	6882	2	270	
6116	14167	A	6883	2	114	
6117	14168	B	6884	75	293	MPSIKLQSSDGEIFEVDVEIAKQSVTIKT MLEDLGMDDEGDDDPVPLPNVNAAILK KVIQWCTHHKDDPPSS*
6118	14169	A	6885	446	639	

6119	14170	A	6886	3	1503	ARQRRSRAPTHHTRALVRLFSGSQSAP PPPPRSPPSAAMSTRSVSSSSYRRMFGG PGTASRPSSRSYVTSTRYSLGSALRP STSRSLYASSPGGVYATRSSAVRLRSSVP GVRLLQDSVDFSLADAINTEFNTRTNE KVELQELNDRFANYIDKVRFLQEQNKIL LAELEQLKGQKSRLGDLYEEMRELRR QVDQLTNDKARVEVERDNLAEDIMRLR EKLQEEMLQREEAENTLQSFQDQVDNAS LARLDLERKVESLQEEIAFLKKLHEEEIQ ELQAQIQEQHVQIDVDVSKPDLTASLRD VRQQYESVAAKNLQEAEEWYKCQVC* PLLASNRNNNEPLRQAKQESITELPENR VQSLTCVEVDAL*RKPMSSLERQLREME ENFC/AVKAANYPRLLARLQDEIQNY* RREMASLTFVEYQ*PALNVKMAP*HLRF ATLQE/MLLGRRGERGFPLASFPNFSLP* TLRGNLIWDSLPSGLIPHSKRDT
6120	14171	A	6887	3	232	
6121	14172	A	6888	252	384	
6122	14173	A	6889	3	196	
6123	14174	A	689	2	323	REMDLQVHNAMDQLEQRVSEFFMNAK KNIPEWREEQMASIKDYKALEDADE KVQLADQIYDL/RSLELDTPSQPVNNHH AHSHTPAEKRYNPTSHHTTDDHIPEK
6124	14175	A	6890	1	2994	
6125	14176	A	6891	75	350	TGIPVNSYRVKINWYTLQFVSLFRPFGP VINNLADQSESEGPVQESAEPQLAEVP ATEEIKETDGSSQIKQEPDPTWETSFLG EISF
6126	14177	A	6892	1	2935	
6127	14178	A	6893	214	301	
6128	14179	A	6894	1	2879	MAQVAMSTLPVEDEESSESRMVVTFM SALESMCKELAKSKAEVACIAVYETDVF VVGTERGRAFVNTRKDFQKDFVKYCV EEEKAAEMHKMKSTTQANRMSVDAVEI ETLRKTVEDYFCFCYKALGKSTVVPVP YEKMLRDQSAVVVQGLPEGVAFKH YDLATLKWIGENKGGISFIKRPFLPKK HVGGRVMVTDADRILSPGGSCGPIKVK TEPTEDSGISLEMAAVTVKEESEDPDY QYNIQ
6129	14180	A	6895	1	334	
6130	14181	A	6896	3	444	
6131	14182	A	6897	117	1009	
6132	14183	A	6898	5	808	LPLPGRAVWCTHCCAPTSPGPVLP MSFLKSFPFPPGPAEGLLRQPDTEAVLN GKGLGTGTLYIAESRLSWLDGSGLGSL EYPTISLHALSRDRSDCLGEHLYVMVNA KFEEESKEPVADEEEEDSDDVPEITEFR FVPSDKSALEAMFTAMCECQALHPDPED EDSDDYDGEEDVEAHEQGGDIPTFYT YEEGLSHLTAEGQATLERLEGMLSQSVS SQYNMAGVRTVEDSIRDYEDGDGRD TPTVCLGQFEDADV
6133	14184	B	6899	233	411	XALNGLSAQDNWAKLQRDYPDALITNY YLWPAVQLANFYLVPLHYREDPASTTLV SDPT*
6134	14185	A	69	709	941	SQHFERSGDQHPGQHGETLSLLKMQK LAGCGGMRL*SQLGRLRQENLLNPGG RGCSKPRSHCTPAWVTQQDSIS
6135	14186	A	690	2	495	AKKNKPEWREEQMASIKDYKALEDA DEKVLSSNQIYDLVDRGGRKLDQELAK FKMELEADNAGITEILERRSLELDTPSQ VNNHHAHSHTPVEKRYNPTSHHTTDD HIPEKKFKSEALLSTLTVRCLLRENTLGC RVNNNSTASSNAYNVNSSQPLGSYN

6136	14187	A	6900	109	435	
6137	14188	A	6901	34	408	RQWLQEEAYITKEQKYSFLHDSQTSFCF SDSIPTSSNMEETQQ/KSNLELLHISLLLN QSRLEPVRFLRSTFTNNLVYDNSDSDDY QLLKDLEGGIQMLMGRLEAATN*LGGP QANYNKFDKTRTT
6138	14189	B	6902	80	495	XPGSRTSLLAFALLCLPWLQEAGAVQT VPLSRLFDHAMLQAHRAHQLAIDTYQEF EETYIPKDQKYSFLHDSQTSFCFSDSIPT SNMEETQQKSNLELLRISLLIESWLEPV RFLRSMFATTWCMTPTAMTITS*
6139	14190	A	6903	1	597	
6140	14191	A	6904	3	552	
6141	14192	A	6905	3	716	
6142	14193	A	6906	359	648	WIPRPNSPNHSGSCGQAHLVAMAPGSRT \SLLAFALLCLPWASRRLGAVPKPFRIS RLFADHAMLQAHRAHQLAIDTYQEFEE TYIPKDQKYSFLA*PQTSFCFSDSIPTPS NRRITQQKSNLELLRISLLIESWLEPV RFPQEYCSANNLGVLTPTAIDYHLLKD LEGGHPTV*WNICREVCFSACFSRGIRDD IEEEDDQEAYFRYMAENPTAGVVQEEEE DNLEYDSGDGNPIAPTCKIIDPLPIDHSEV DQHGLRPEGTHLTLKERTSWVESVADTL CTILTTLVMDPKAQLPEPLRVLWTGSPS GNGSRLPDVPCSWLLPCSACPLQGGW VPCQNRSVYPGFFDHAIAPSPSRAPAGH CTPTRSLKKPHIPKDQKYSFLA
6143	14194	A	6907	113	411	
6144	14195	A	6908	3	1162	
6145	14196	A	6909	2	265	
6146	14197	A	691	50	391	GSQKIAPVFWSGFECDSERLTDLESWLY ILPATQPWSLTIFYFQFSFILFLRYDKLF FFFTLYLYLNLYFFLYVFLFIV*ICIFCYTY LVFIFKCVV*FFIFFVCFMLFFL
6147	14198	A	6910	3	151	
6148	14199	B	6911	58	359	SLAALQAYSHWLAQYCSEVHRQNTQQF VTLISTTMDAITPLISTKVQDKLLLSACH LLVSLATTVRPVFLISIPAVQKVFNRITDA SALRLVDKRMSSSGP*
6149	14200	A	6912	4	329	
6150	14201	A	6913	2	256	
6151	14202	A	6914	1	350	

6152	14203	A	6915	257	2659	VDCRMS/FKFTDFLRLFVSVHLRRIE SYSQFPVVEFLTLLFKYTFHQPTHEGYFS CLDIWTLFLDYLTSTKIKSRLGDKEAVLN RYEDALVLLLTEVLNRIQFRYNQAQLEE LADDETLDLDDQTEWQRYLRQSLEVVA KVMELLPTHAFSTLFPVLQDNLEVYLGL QQFIVTSGSGHRLNITAENDCRRLHCSLR DLSSLLQAVGRLAEYFIGDVFAARFNDA LTVVERLVKVTLYGSQIKLYNIETAVPSV LKPDLIDVHAQSLAGGCRLSAHWLAQY CSEIHRQNTQQFVTLISTTMDAITPLISTK VQDKLLLSACHLLVSLATTVRPVLISIP AVQKVFNRTDASALRLVDKAQVLVCR ALSNILLPWPNLPENEQQWPVRSINHAS LISALSRDYRNLKPSAGAPQRKMPLDDT KLIHQTLQRLRKILWENISGESTKSSTDF AYQFGCRESVQVSLGLFPFVHQSDVT DEMLSFFLTFRGLRVQMGVPPTEQIIQ TFLNMFRTREQLAESILHEGSTGCRVVEKF LKILQVVVQEPGQVFKPFLPSIALCMEQ VYPHAERPSPDVKAELFELLFRTLHHN WRYFFKSTVLASVQRGIAEEQ MENEPQ FSAIMQAFGQSFLQPDHFLKQNLFLYLAE TLNTKQKLYHKKVFRITAMLFQFVNVL LQVVLVHKSHDLLQVEIGHRHSYNMAS VDFDGGFAAFLPEFLATSCDGVADANQK SVLGRNFKMDRVRERERGRAKRAEWA RKPGTCAARRGHIEASGRGLCPPCSLAA AHEMPADLVL
6153	14204	A	6916	1	321	
6154	14205	A	6917	1	259	
6155	14206	B	6918	1	3045	MPDCTSKCRSLKHALDVLSVVTKGSEN QIKAFLLSSH CYNAATIKDVFG RNALHLV SSCGKKGVLDWLIQKGVDLLVKDKESG WTALHRSIFYGHIDCVWSLLKHGVS LYI QDKEGLSALDLVMKDRPTHVVFKN TG LLDPNGEKC VTAPRQVSALHHKDIALSL VAASDGATVCVTTRGDIYLLADYQCKK MASKQLNLKKVLVSGGHMEYKVDPEHL KENGGOQKICILAMDGAGRVFCWRSVNS SLKQCRWAY
6156	14207	A	6919	1	1149	
6157	14208	A	692	3	546	PAPPGRVFAAWPGSEEARVLVVLKGCA CRAGLFGKMYPLLPMTEVCTKSSTVTWF CFAAYESLFETPFSAIGVSVLVPSWGTLT ALS*VCFAAFA*LLASLFSQDPLVSPSAA MWASPACFCAEPSSAAIGVSSPSSSVFTQ QS**GSPLAGSASASAKNMARARSVAPP RNGRPGNTNADS

6158	14209	A	6920	426	2967	HSAPPAVLROGMSEAGGAGPGGCGAGA GAGAGPGALPPQPAALPPAPPQGSPPCAA AAGGSGACGPATAVAAAGTAEGPGGGG SARIAVKKAAQLRSAPRAKKLEKLGVYSA CKAEESCKCNGWKNPNPSPTPPRADLQQ IIVSLTESCRSCSHALAAHVSHLENVSEE EMNRLLGIVLDVEYLFTCVHKEEDADTK QVYFYLFKLLRKSILQRGKPVVEGSLEK KPPFEKPSIEQGVNNFVQYKFSHLPAKER QTIVELAKMFLNRINYWLEAPSQRRLR SPNDDISGYKENYTRWLCYCNVPQFCDS LPRYETTQVFGRTLRSVFTVMRRQLE QARQEKDKLPLEKRTLILTHFPKFLSMLE EEVYSQNSPIWDQDFLSASSRTSQLGIQT VINPPPVAGTISYNSTSSSLEQPNAGSSSP ACKASSGLEANPGEKRKMTDSHVLEEA KKPRVMGDIPMELINEVMSTITDPAAML GPETNFLSAHSARDEAARLEERRGVIEFH VVGNSLNQKPNKKILMWLVGLQNVFSH QLPRMPKEYITRLVDFPKHKTALIKDG RVIGGICFRMFPSQGFTIIVFCAVTSNEQ VKGYGTHLMNHLKEYHIKHDVILNFLT ADEYAIGYFKKQGYCKEIKIPITKYGGYI KDYEGATLMGCELNPRIPYTEFSVIKK AE/EGIIKKLIERKQAQIPKKFTLGLSCFK DGVROIPIESIPGIKKAIGWNPSGKEKSKE PRDPDQLYSTLKSILQQVQKSHQSAWAF MEPVKRTEAPGYEYEVIRFPMDLKTMSE LKNRYVYVSKKLFMADLQRVFTNCKEYN AAESEYYKCANILEKFFFSKIKEAGLIDK
6159	14210	A	6921	1	184	
6160	14211	A	6922	114	384	
6161	14212	A	6923	141	1741	
6162	14213	A	6924	1	153	
6163	14214	A	6925	1	200	
6164	14215	A	6926	2	242	
6165	14216	A	6927	132	251	
6166	14217	A	6928	132	251	
6167	14218	A	6929	2231	2578	PLPPGSRTLHWMAPDEEDFRIGN*TMNA IFFFLFLFFFFFLRQSFALVVQAGVQW HDLSSLQPPPPRFK*FSCSLSPSGWD*RH APPRPAIFVFLVEMGFHHVNQDGLDLT W
6168	14219	A	693	3	389	DAWVDPRFRLIFLKTTLTGKTMVLDLEPN DTIANAKA*IQDKEGIPPDQORLIFAGKQ LENGRTLDPYIIHKESTLLLVLRLKGGMQ IFVKTLTA*TISLQAEPSTIHN*EKIQD KESIPPDQHTVIL
6169	14220	A	6930	2	94	WRDLGSL*PPPGFKRFS*LSLKSHPNVT S
6170	14221	A	6931	130	295	GIISNADFVSFFFF*DGVFALVAQAGVQ WRGLGSLQPLPPGFKRFSCLSLPSTW
6171	14222	A	6932	3	403	TYKILDFIVNSIRHRRGTFRFPGHTEVTS MTLDFIGAG*/SNLQ*PAST*PGDQY*I*L LQST*NYVLHKFQLPTWGRSEISEQAV SAKEKT*KS/T*LALVK*ARTLESNWPGL *ILILISLSCMIWTNDSNLF
6172	14223	C	6933	78	335	MWSPLTKEIFSCPTPQTGAFKGTCLKRA PXXXXXXXXXVKIGXXXXXXXXXXXXXXXXX XVSPRPLSARVLAPCLGCDFFVSFNRTTV WK*
6173	14224	A	6934	1	143	
6174	14225	A	6935	1	1676	
6175	14226	A	6936	1	161	
6176	14227	A	6937	61	742	
6177	14228	A	6938	7	238	
6178	14229	A	6939	1	213	

6179	14230	C	694	70	225	MNIQYIQH...YQNVRSQRESTGRWSH CCPSQGRSRRIPFTVEEIQQHGV*
6180	14231	A	6940	1	257	
6181	14232	A	6941	3	279	GSGWDGRGQSGRVADSS*ARVLSALRE VNKIRLQDLRSLSPKPPQGQEQQGED EVVLVEGPTLPETPRLFPLKIRCADLVR LPLRMVSA
6182	14233	A	6942	73	816	
6183	14234	A	6943	1	484	
6184	14235	A	6944	1	1758	
6185	14236	A	6945	1	1420	
6186	14237	A	6946	186	209	QLWPN*LLSRNKEATLRYSQLPTCHSICY *MPAF*HTISDLSFNKNINCKSYHLRVFY KYV*IVCHF*VPKVYWTKYQTSCT*W R*SGVE*PPISSSSSACCLRLPTEGTCF EIFWNPRLGISAECDSCGPTSF
6187	14238	A	6947	2	2948	
6188	14239	A	6948	1	616	
6189	14240	A	6949	1	1913	
6190	14241	A	695	277	396	EAP*HPDFIKNMITGTS*ADCAGLIVAAG GGVFKSWDLQK
6191	14242	A	6950	3	185	
6192	14243	A	6951	112	569	
6193	14244	A	6952	1	1210	
6194	14245	A	6953	75	333	
6195	14246	A	6954	271	512	GAVGRPRSQQKSIGVPGWVSPGF*ECGK RRMTFVLLKHIMLLFPARFQQIMRNIPRR LAEHMQQLFSSCPSLMRAFEVT
6196	14247	A	6955	2	184	
6197	14248	A	6956	13	163	
6198	14249	A	6957	627	847	
6199	14250	A	6958	3	144	
6200	14251	A	6959	1	2008	PAAADARRPRAPATMRPRKAFLLLLL GLVQLLAVAGAEGPDEDSSNRENAIEDE EEEEEDDDDEEDDLEVKEENGVLVLND ANFDNFVADKDTVLLFEYAPWCGHCKQ FAPEYEKIANILKDKDPPIPVAKIDATSAS VLASRFVDSGYPTIKILKKQAVDYEGS RTQEEIVAKVREVSQPDWTPPEVTLVL TKENFDEVVNDADIILVEFYAPWCGHCK KLAPEYEKAAKELSKRSPPIPLAKVDAT AETDLAKRFDVSGYPTLKIFRKGRPYDY NGPREKYGIVDYMIEQSGPPSKEILTLKQ VQEFKLDGDDVIIIGVFKGESDPAYQQY QDAANNLREDYKFHHTFSTEIAKFLKVS QGQLVVMQPEKFQSKYEPRSHMMDVQ GSTQDSAIKDFVLKYALPLVGHKVSND AKRYTRRPLVVVYYSVDFSFDYRAATQ FWRSKVLEVAKDFPEYTFIAIDEEDYA GEVKDLGLSESGEDVNAAILDESGKKFA MEPEEFSDTLR\ELVTAFKKGKLPVIK SQPVPKNNKGPVKVVVGRTFDSIVMDP KK\DVLIIFYAPWCGHCKQLEP\VYNSL A\KKYKGQKGLVIAKMEAP\ANDVPQRP AIRVEGFPTIYFRPPVGDKKDP\VKFEG GDRDLEPFEPFIEEHA\TKLSRTKEEL
6201	14252	A	696	549	707	SQNFWRPMWADHLRLGVRDQHGQHGE TPSLLKIQKLAGHGGGRL*SQLVRKLR
6202	14253	B	6960	137	214	ASQFPIEWRPVKDAATVDSEPALPQQ*

6203	14254	A	6961	1	625	PSLKGQKLELHRGAAALELVDPGCRSG LVHARGCTYSQLWSRSHPFCCSRGPLA MAGILFEDIFDVKDIDRKAKKFDRVSR HCESESFKMDLILDVTIQIYPVDLGDKFR LVIASTLYEDGTLDDGEYNPTDDRPSRA DQFEYVMYGVYRIEGD\ETSTEAAATR LSAYVS\YGGLLMRLQGDANNLHGFEV DSRVYLLMKKLAF
6204	14255	A	6962	1	273	
6205	14256	A	6963	135	233	
6206	14257	C	6964	198	449	
6207	14258	A	6965	1	1278	
6208	14259	A	6966	1	325	
6209	14260	A	6967	525	661	TEILSGSLGSEIFTTSES*RPGLGPSFVIFLF SSSVCLNIFFRVL
6210	14261	A	6968	1	293	MAGTPPPALLPPCSLISDCCANNQRDSV GVGPSEPGAGYNLVVRSFLSPSEKRSVR VGVTRLFQGRPSPLSLTQKGNPLTPCAS QFTSTISDGRIMV
6211	14262	A	6969	1	1372	
6212	14263	A	697	82	417	AFQEMELKRPQEEDVAALPEGMRPHSN LYGFSWE*VICAADVGLFAALFFLWRSF RTVIRIRHVGRERKLALMLSGLNQ*KSEL LGHCILAQNEYDGYELDE*FVDLRVDKE
6213	14264	A	6970	2	277	KNEMTLDAYIFLADMAAYQEEQMQLP RADAIRSRLIDTSLIEHLQGLSQAVPRH TIRELLGQQPISSLI*I*DSYPHPLHLRVEN SGEV
6214	14265	A	6971	434	563	ETTFYNEQRGPQPHLPEVKKKYRGN*EA KTK*LRPENWKGDL
6215	14266	A	6972	197	1247	ALVRLDSWMGLNTTANLGGGMTEMAR GVTPWICPRSSAERARSGIPAAMPISVK ISGPQLLIGPNPPGSTKRWARNSSCSEH CR/SQGAQEESECLAQHH/TPSAPSQMT*T PNC*CAGAPLAHVHRGITQRCQMNEVQ VAHMP TTL*ETGDHNAELSGAPAIYLP QGAQHSPVH*DQLL*FPIS*TY*EPTKLQ DLLRTKSPGGTPQLFCFAH/ALPAVPQAQ VLGLLQIMSGSPQSLRAPSLQSGLQTRL GMSLVHLHNLAQVLEDPPQLVAPP/T/D YQGCFLGSKLWLPTQLSN/VCSAPSSAAF LEAAPGSLDPRPPGFVPSLPGLPGGGGS VPAAALELFAPAPPPT
6216	14267	A	6973	232	476	IFVSSYYHVNLFFRFT*AHSSSH*TNPQD LYPYQHGNKVKDIPGTLPENRKVG*PL KKDLQDENKQDKPSCHLQGLQWP
6217	14268	A	6974	442	698	
6218	14269	B	6975	546	1820	LLNCPFCYGLTSVLHVTCFFSHHGY DTSKDNGAKQPKDEIDAAEDATDFRH LPDVLKQCIPMIQASQPADSAVPATSGK VYGTPELTPTNIEAAPLAEEHASSA TSITECDKLSSFATSAEDQSVASLTAPQ TEETGKSSLLDVTISIPSSRTEATQGLD YVPSAEDKGFKSPCEDFSVTGESEKRG EIIGKGLSGERAVEEEEEETAHVEMSEKL CSQYGTVPVFSAPGHALHPGEPALGEAE RRLSPDDSTVKMASPAPSGPPSGHTPFH ESPVEEKSEPQDFQEADSWGDTQRTTSV GKRKAAEELRCLVRTGRSIRGLSLPPACT RAERREVERVVVDALSGLKGDLAGRY RLSEMTEAEQQQLIDDHFLDKPVSPLLT AAGMARDWPDARGIWHNNEKSFLIWW N*
6219	14270	A	6976	2	480	
6220	14271	A	6977	1	2043	
6221	14272	A	6978	1259	1497	

6222	14273	A	6979	2	425	
6223	14274	A	698	751	1063	FYQDKRHQPGIVAAACNPFGRSRQEDLL RS*VGDPQGQHSESPSMQKI*KLAGHGG AHV*S*LLRRPRQDNPLSPGGQGCSVL*S HHCTPAWATQGDPSGSKSN
6224	14275	B	6980	259	329	XFRKKEQKIQCKGTAGQALIKE*
6225	14276	A	6981	1	1251	
6226	14277	A	6982	1	421	
6227	14278	C	6983	120	371	MSAHSHPTCTINGHTPVSTITYXXXXXGG PFKRTLGGPKFNGGGQGKIFFMGGFLFK PSLGFLEKNLFXXXXTYGATPPPFKFP*
6228	14279	A	6984	76	251	ALKFCRGVFPFSPQKKFLFQNSPGGFFF PPLKEKNFSFPP*KSSSPKPLNFVGGFFP FFPPP/NKKFLFQNSPGGFFFPPLKEKNFS FPPPVKFGPPQGSF*TPPP
6229	14280	C	6985	193	315	MGGQLKPSLGFLEKNLFFGGEKNHGX XXKFKPLGXXXXF*
6230	14281	C	6986	363	413	
6231	14282	A	6987	1	1088	
6232	14283	A	6988	64	1279	LAPGAVGKGRGHTLPCSAARMGVKAS QTGFVVLVLLQCCSAYKLVCYYTSWSQ YREGDGSCFPDALDRFLCTHIYSFANIS NDHIDTWEWNDVTLYGMLNTLKNRNP NLKTLSSVGGWNFGSQRFKIASNTQSR RTFIKSVPPFLRTHGFDGLDLAWLYPGR RDKQHFTTLIKEMKAEFIKEAQPGKKQL LLSAALSAGKVTIDSSYDIAKISQHLDFIS IMTYDFHGAWRGTTGHHSPLFRGQEDA SPDRFSNTDYAVGYMLRLGAPASKLVM GIPTFGRSFTLASSETGVGAPISGPGIPGR FTKEAGTLAYYEICDFLRGATVHRTLQ QVPYATKGNQWVGYYDDQESVKSKVQY LKDRQLAGAMVWALDLDLDFQGSFCGQ DLRFPLTNAIKDALAAT
6233	14284	A	6989	3	174	
6234	14285	A	699	3	17	
6235	14286	C	6990	116	181	MCSTSRSRFTNILKSCNLLKY*
6236	14287	A	6991	20	111	
6237	14288	A	6992	120	426	
6238	14289	A	6993	2	112	
6239	14290	A	6994	24	316	FLFLFFETESCSVARLECSGAJSAHCKLC LPGSRHSPASASSQVAGSTGACHQA/QA NFVVFVFLVETGFYRVSPG*SG/LSLELVIR PPRPPKVLGLQV
6240	14291	A	6995	80	326	
6241	14292	A	6996	1	233	
6242	14293	A	6997	1941	2223	RTPRMKQSPAPIPCQPTTCSGCMASRAT RTGWTSVCAYCRLFRAHAICVPVALPE MVRALSAQQQTLKQIVICGDRQAKDTK ALGAVRPLCLHS
6243	14294	A	6998	211	544	
6244	14295	A	6999	31	230	
6245	14296	A	7	46	1069	ESKHGNFFWVIFLCYCTKEERTQLQKQK TDEYFRMKLQWKSISQEQEKRNSRLRD YRSLIEKDVNRDRTNKFYEGQDNPLI LLHDILMTYCMYDFDLGYVQGMSDFFS PFLYVMENEVDFAWCFASYMDQMHQN FEEQMGMKTQLIQLSTLLRLDLSGFC YLESQDSGYLYFCFRWLLIRFKREFSFLD ILRLWEVMWTELPCTNFHLLCCAILSE KQIMEKHGYGFNEILKHINELSMKIDVE DILCKAEAISLQMVCKELPQAVCEILGL QGSIAVTPDSDVG*RTKMLVNDFLGPT VCISKVTALPTLSASGARNDSPQIPVSS RCLQD

6246	14297	A	70	170	340	TDSALGSPCLHPTALCAVCGTA*SST/GL VALALMRLELILKSSVPAVMAGIITIYNL
6247	14298	A	700	3	443	
6248	14299	A	7000	1	861	
6249	14300	A	7001	55	406	
6250	14301	A	7002	1	361	
6251	14302	A	7003	1	1725	
6252	14303	A	7004	1	1271	
6253	14304	A	7005	3	329	LIKLCCKSAKSCENDLEMGMLNSKFCKT RYQAGMRNSENLTANNTLSKPTRY/QGE LKEIKQDISSLRYELLEKSQATGELADLI QQLSEKFGKNLNKDHLRVNKGKDI
6254	14305	A	7006	1	801	
6255	14306	A	7007	21	373	
6256	14307	A	7008	3	63	
6257	14308	A	701	147	437	WYVKKERKKERKQERKKERKKERKKE RKKRKRRERKKER*REEREREGRKEGRKE GRKEGRKEGRKEGRKKGRREGREKERE RKKEREISREYDSEK
6258	14309	A	7012	1	521	MSSKRTKTKTKKRPQRATSNVFAMFDQ SQIQEFKEAFNMIDQNRDGFIDKEDLHD MLASLGKNPTDEYLDAMMNEAPGPINF PQWFSPMLVRSLNAPDPAENVIRNAFACF DEEAPGPIQEDYLRELLPTMGDRFTNEE VDELHREAPIDKKGNFNYIGFTRILEHGA AKDKDD
6259	14310	A	7013	106	693	TTTMSKKAKTKTKKRPQRATSNVFA MFDQSQIQEFKEAFNMIDQNRDGFIDKE DLHDMLASLGKNPTDAYLDAMMNEA PGPINSTMFVLTMFGEKFKSHRSPEDVI/ RANGLCFCSDDEEATGHFPQED/YTLRELL TNPWGDARFPDGGKWMNLYQRKHLIGP KKGEFSNYIGVHHGILTGRPPKHKDDLK ELLA
6260	14311	A	7014	78	188	
6261	14312	A	7015	2	93	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6262	14313	A	7016	2	93	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6263	14314	A	7017	2	93	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6264	14315	A	7018	2	93	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6265	14316	A	7019	2	94	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6266	14317	A	702	505	637	CLLLNSIYRRHQGR*DGKERKKDRKKE RKKERKKERKKERKKERKKE
6267	14318	A	7020	1	418	RRLRTAMKLRSRHPDQTDWHDQQYNKA HLGAALQANPLGGAHAHAKGIVLEKVRV EATQPKSAIMK/CVRVQLIKNGKKITAF VPNDGCLNFIENDEVLVAGFGRKGHAV GDIPGVRFKVVKVANVFILALYKGKKER PRS
6268	14319	A	7021	2159	2334	SATNYRNLTVLELGNSTHRSHTNST* KNCTRIPTSQLNK*VKKHQSHICQSNCP F
6269	14320	A	7022	1748	1821	
6270	14321	A	7023	2179	2485	
6271	14322	A	7024	3	502	TARAWLLGPVWPCVSEWSKKPSPRG GRDPSDRDPAFAARSTVPPRISAYERPV PWPGEWNPGRGRRASAVVSPREGNW GVLDPRLQARKPRMVRSRQMCNTNMS VPTD/GCCNHLTDSSFGTRDPG*TKAJAF EVIKVCWCTKRHLYYERGSFLSWPVYY D
6272	14323	A	7025	89	291	

6273	14324	A	7026	1295	1429	
6274	14325	C	7027	332	763	MTGCLNFIEENDEVLVAWIWSQKVMLL VIFLESXFKVVQSSPMVSLALYKWLYG ETKIINMNGENTVVINFHMPKNVCILLSP VLTTKIMFITTTTPPYFFYPKPNAGPVPI LGNNKTGLFQDSLELITFVTWHSFHPVE *
6275	14326	A	7028	89	184	
6276	14327	A	7029	2	274	LDLDSIKIVKKLKLTFGPYKIFKNTSFI/ KDIVFMRTWYPVSIPAFYNPVTSLKPV/ GEKDTWSGMWTTGHLGL/AHGVRLKTN KDSLYKGLV
6277	14328	A	703	220	476	HNSLVVYYFEIWSRILFVYSCSIHTSVVT H*SLLSLGHLKYIWAGHGVSHL*FQHFG RPRWENHLRPGL*DQPGQHSETPSLLKK
6278	14329	A	7030	178	619	PPRHVQLNHAEFEDQDEARVQYEGFR PGMYVCVEIENVPCFV*NFDPRYPILG GLGNSEGNVGYVQ/IPITPQGTGFLAIQSV SGIMPDFRIAATGVVLDLDSIKIVKKLK LTGPYKIFKNTSFIKGMFN SALEVAKFE GAVF
6279	14330	A	7031	159	484	DPITPQGTGFLAIQSVSGIMPDFRIAATGV VLDLDSIKIVKKLKLTFGPYKIFKNTSFI KGMFN SALEVAKFEGAVIRTISGIRGQIK KAL*APEGAFRASFEKLL
6280	14331	A	7032	19	3881	IATMEAKDQKKHRKKNSGPKAAKKKKR LLQDLQLGDEEDARKRNPKAFAVQSAV RMARSFHRTQDLKTKKHHPVVDRTPLE PPPIVVVMGPPKV GKSTLIQCLIRNFTR QKLTEIRGPVTIVSGKKRRLTIECGCDIN MMIDLAKVADLVMLIDASFGFEMETFE FLNICQVHGFPKIMGVLT HLD SFKH NKQ LKKT KRLK HRFWTEVYPGAKLFYLSG MVHGEYQNQEIHNLGRFITVMKFRPLT WQTS
6281	14332	A	7033	182	374	
6282	14333	A	7034	2	198	
6283	14334	A	7035	1	457	
6284	14335	A	7036	2	145	
6285	14336	A	7037	55	193	
6286	14337	A	7038	564	882	
6287	14338	A	7039	257	513	KFFSFLSSACCLEQVLFVFFVFFLLII FSFFFSFSFSFFFFSSSSSSSSSFFFLR WS/PRVAQAGVQ/WS*FGSLQPP
6288	14339	A	704	1	554	DLILNHLFFCFVIRQQFSFLFFPSFFHFI AMLTHQSYVIFLSVYTVIHLDFYISLFLT YDIMYF*TKINT*AKLLLIYENMLIVL*CS AFLSNYTVLIVQIIASLIHSSTK*ISQCANII KI*IIH*L*SSVEINSYL*LFCYLVYSAIIL ELVLQSQFSYMYILRIQLDFLNEEMHI
6289	14340	A	7040	936	1317	ILVLHGCFICWWYLCLSMYFFNF FEME SRSVAQAGVQWCA/DLCSLQAPPAGFTP FSCLSLPSSWDYRHPPRLAKFFVFLVET GVFHRVSQDGLDLTSGDPPTSASQSAGI TGVSHRARPLKHL
6290	14341	A	7041	1	1218	

6291	14342	A	7042	1	1169	MAPPSPSTSSNNSSSSNSGWDQLSKT NLYIRGLPPHTTDQDLVKLCQPYGKIVST KAILDKTTNKCKGYGFVDFDSPAQAQK AVSALKASGVQAQMAKQQEQDPTNLYI SNLPLSMDEQELENMLKPPGQVISTRILR DSSGTSRGVGFARMESTEKCEAVIGHFN GKFIKTPPGVSAPTEPLLCKFADGGQKK RQNPKNYIPNGRPWHREGEVRLAGMTL TYDPTTAAIQNGFYSPYSIATNRMITQT SITPYIASPVSAQVAKETRENKYRGS KVQSPSWMQPPYILHDPGAVLTPSMEH TMSLQPASMISPLAQQMSHLSLGSTGT MPATSAMQGAAYLPQYAHMQTTAVPVE EASGQQQVAVETSDHSPYTFQPNK
6292	14343	A	7043	1	743	
6293	14344	A	7044	2	171	
6294	14345	A	7045	1	350	
6295	14346	A	7046	2	1685	
6296	14347	A	7047	47	218	
6297	14348	A	7048	3	1716	GRCCCFSPDGKALAVGLNDGSFLMANA DTLEDLVSFHHRKDMISDIRFSPGIWPVI GEVTDVTASCLTSDKMVLATGDDLGFV KLFRYPTKASSEQGPTTARETPDKQCRQ EKETYRATAPSIHIWDAMNKQTLISILRC YHSGVCSVSFSATGKLLSVGLDPEHTI TIWRWQEGAKIASRAGHNQRIFVAEFRP DSDTQFVSVGKHKFWTLAGRALLSK KGLLSTLEDARMQTMLAIAFGAGKILVG TRNAEIIIEVGEKNAACNILVNGHVDGPI WGLATHPSRDFFLSAAEDGTVRLWDIAD KKMLNKVNLGHAARTVCYSPGDMVAI GMKNGEFIILLVSSLKIWGKKRDRRC DIRFSPDSRYLAVGSSENSVDFYDLTLGP TLNRISYCKDIPSFVIQMDFSADSSYLQV SSGCKYKRVYEVPSGKHLMGSSAIDRIT WATWTSILGDEVLGWISRHAEKADVNC ACVSHSGISLVGTGDDFGMVKLFDFPCPE KFAKHKRFLGHSPLVNTNIRFTSGDRHV SAGGDDCRLVTFSAAHEEQTMLLVKRLN TTIPTALVYEIS
6298	14349	A	7049	1	5853	
6299	14350	A	705	1039	1560	SLVLDLTGLPRPTSPSHERGLDSSSSGPG LSTGP*ECSPDPNPMCPKVLPGPDQRCW NSHSTAPIAFPEPVRSR*SGSWTPVPATG ATLNPRCQRGLAIPNSLVSSP*GPAGWRE LPSSQQAHPHPKR*GALRSENROEGPDQ GCGNCFVKYGGVRVGRVGYSGPVRTGCS RASN
6300	14351	A	7050	1	426	LKQQIEEQRVQVQVVERAQQVAVQE ARAEAEQMAKKA/AFQLYQEAQQLDM LLEKLPQVAEEISGPLTSANKITLVSSGS GTMGAAKVTGEVLDILTRLPESEVRLT GVITILPRLNHKAF*RTALSQPSQMP SLIAE
6301	14352	A	7051	162	1449	
6302	14353	A	7052	57	389	

6303	14354	A	7053	162	1581	TMFFTCGPNLEAMVVS GFCRSPVVMVAG GRVFLPCIQQIQRISLNTLTLNVKSEKV YTRHGVPI SVTGIAQVKIQGQNKEMLA ACQMFLGKTEAEIAHIALETLEGHQRAI MAHMTVEEIYKDRQKFSEQVFKVASSD LVNMGISVVS YTLKDIHDDQDYLSLHGK ARTAQVQKDARIGEAEAKRDAGIREAK AKQEKVSAQYLSEIEMAKAQRDYELKK AAYDIEVNTRRAQADLAYQLQVAKTKQ QIEEQRVQVQVVERAQQVAVQEIEIARR EKELEARVRNPAEVAERYKLERPAEAEKS QLIMQAEAKVAASVRMRGEAEG LCP*GP EPRAEVAEQMAKKA EAFQLVPRGVAQL DMLRRESCPRWQEERSGPLNFSPIRSPLV SSGSGTMGAANKVTGEVLDILNSPCPES VERLTGREHLPRVNHKPLKNSLEPSAL HRCPASLAEVALNDPPVACNPLGLPEHV H
6304	14355	A	7054	1	327	
6305	14356	A	7055	1	202	
6306	14357	A	7056	1	493	
6307	14358	A	7057	409	521	
6308	14359	A	7058	296	869	
6309	14360	A	7059	1	848	MPGLRVKMPCGPGISQDEAVWSMDDNF EVNKKHPVWRAATLAKDCKNQSAQAV TVYNKPASFFKEAPLDLQHRLFMKLGST HSPFRARVFFCSFISEPEDPATERLAFTER DAGSRLVTLHERPALLVSSTSWTGKGP LREYYSR LIYQKHFQHIQVCTPWLGAED YPLLIGSADLG VCLHTSSSGLDLP/L*KV VDMFGCCLPVC AVNFKVFTLVKHEEN GLVFEDSEELAAQLQMLFSNFPDPAGKL NSFRKNLPESQQL*WDES WVQTVLPLV MDT
6310	14361	A	706	644	930	EGSHGLGVVAHACNPSTLGNRCGVDHL SSGVQGPQGHGKTPFLQKIQKLAGHG GTRL*SSYLRLRWEDEGGRCSEPRSRH CTPAPWATE*DPV
6311	14362	A	7060	738	1902	FHHLTETNSPNYFITMALNVAPVRDTKW LTLEVCRQFQRGTCRSRDEECKFAHPPK SCQVENGRVIACFDSLKGRC SRENCKYL HPPTHLKTQLEINGRN NLIQKTA AAML AQQM QFMFGTPLHPVPTFPVGPAGTN TAISFAPYLAPVTPGVGLVPTEILPTTPVI VPGSPPVTVPGSTATQKLLRTDKLEVCR EFQRGNCARGETDCRF AHPADST MIDTS DNTVTVCMDYIKGRCMREKCKYFHPPA HLQAKIKAAQP/QAAATVMTQSTAKAM KRPLEATVDLAFPPGALHPLPKRQALEK SNGTSAVFNP SVLHYQQAL TSAQLQQH AAFIPTGSVLCMPATSI VPMH SATSAT VSAATTPATSV PFAATATANQIILK
6312	14363	A	7061	1	240	
6313	14364	A	7062	3	354	
6314	14365	A	7063	1	621	
6315	14366	A	7064	362	720	
6316	14367	A	7065	1	2610	
6317	14368	A	7066	122	1840	
6318	14369	A	7067	1	1433	
6319	14370	A	7068	3	324	
6320	14371	A	7069	3	421	
6321	14372	C	707	185	397	
6322	14373	A	7070	3	552	
6323	14374	A	7071	3	600	
6324	14375	A	7072	3	550	
6325	14376	A	7073	1	102	

6326	14377	A	7074	3	1451	GAVRTWGRGQTEKQASLLNFWNPPT TAQVTIEAEPTKVSQKDVLLLVHNLPO NLAGYIWYKQGMKDLHYHTSYVVDGQ IIYGPAYSGRETIVSNASLLIQNVREDA GSYTLHIVKRGDGTGETGHFTFTLYRH SLDSALSLEVTGSSQPL*DTWENCPTLW LHCLMTELTSGLDVLPVISAEPSPRS GFPVSKGFKDNWKFHHPSLGCPWQGKL QRKHTSGGKVRLKLRRFQHCHMLQVRTT SVETPKPSISSNLYPREDMEAVSLTCDPE TPDASYLWWMNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRNPVSASRS DPVTLNLLPKLPKYITINNLNPRENKDV LAFTCEPKSENYTYIWWLNGQSLPVSPR VKRPIENRILILPSVTRNETGPYQCEIQDR YGGIRSYPVTLNVL YTTKHSGLYACSVR NSATGMESKSMVTVKVSAPSGTGHLPG NPL
6327	14378	A	7075	3	435	
6328	14379	A	7076	79	1516	
6329	14380	A	7077	9970	11210	MKDACGGIKGATQDNLLSTQ/PKLPMP YITINNLNPREKKDVLAFTCEPKSRNYTY IWWLNGQSLPVSPRVKRPIENRILILPSVT RNETGPYQCEIRDYGGIRSNPVTLNVL CEYPLFLCGPHQLNSKRPEARPLSLSPV QV*TLLLDIRPGHDSLPWEILGRHSLNQ EYKGRGALVMGH*GPTACNERNRGIPQ AWA**T*MGFGCHLRLCLGSEGHCVPLR DQEHPLPLDDITCGFILFPDGPDLPRIYP SFTYYRSGENLDLSCFADSNPPAEYSWTI NGKFQLSGQKLFIPQITTNHSGLYACSVR NSATGKEISKSMIVKVSGKWIPASLAIGF *VESIWLSEKSQENICIPRLCPMGTSKSI LLLNPPLSLQTLFCLFFCFMADLVSGL RKVGRGLYQP
6330	14381	A	7078	460	1832	QPVLEFLDPRLISTEENTQAAETMGTL APPCTQRIKWGLLLTASLLNFWNLPTT AQVTIEAEPTKVSEGKDVLLLVHNLPO LTRATIWYKQGMRLHYHTSYVVDG EIIYGPAYSGRETAYSNASLLIQNVRE DAGSYTLHIKRGDRTRGVGTFTFNLY LETPKPSISSNLPREAMETVILTCNPET PDASYLW*LNGQNLPMTHSLQLSKAN RTLYLFGVTNYTAGPYECEIWELRECQ ARSDPVTPEFSSRKLKPYITINNLNPGE *GCL*TFICPEPKSENYTYIWWLNGQKPP VSSPRVKRPH*KTGSLIPTVFTRKWQKQ PYSMWNYGDRYGGIRSLPSSPLNCSSYG SRTSPRILPFHFTYIRFREENDLFLGFT GIFNPPAQYSWDN*WKSFLTRGQKLF YSGHITTKHSGLYVCSVRNSATWQGKA PNP
6331	14382	A	7079	2	315	RWSLCPLQAGVQWRDLCSLKPPPPEFKQ FSCLSLPSS*DYRCPPPCPANF/SFFFVFLV ETGFHHVQAGLNLTSRDLLTSASQSA EITGMSHCPRPTLSNSRVL
6332	14383	A	708	3	521	CKMDAGFFRGTSAEQDNRVSNKQKVL LKQLKFAECLEKKVDMKVNLEVIKPV ITKRVTIELGFEDDVIEFIFNQLEVKA*T KMEVIPCV*SIAPSPY*VTAE*VSQCRSDP TPLMMQCVFGNPD SKMMQINLTGFLNG KNAREFMGELWPLLLSAQENIAGIPSAFL EL
6333	14384	A	7080	1	534	
6334	14385	A	7081	1217	1545	

6335	14386	A	7082	2	1665	KKKKKQKNNRKSSTGEASENGLEDIDRIL ERIEDSTGLNRPGPAPLSSRKHVLYVEHR HLNPDTELKRYFGARAILGEQRPRQRQR VYPKCTWLTTTPKSTWPRYSKPGLSMRLL ESKKGLSFFAFEHSEYQQAQHKFLVAV ESMEPNNIVVLLQTSPLYHVDLSLLQLSDA CRFQEDQEMARDLVERALYSMECAFHP LFSLTSGACRLDYRRPENRSFYALALYKQ MSFLEKRGCPRTALEYCKLILSLEPDED LCMLLLIDHLALRARNYEYLIRLFQEW AHRNLSQLPNFAFSVPLAYFLLSQQTDL ECEQSSARQKASLLIQQALTMFPGVLLPL LESCSVRPDASVSSHRFFGNAEISQPPA LSQLVNLYLGRSHFLWKEPATMSWLEE NVHEVLQAVDAGDPAVEACENRRKVLV QRAPRNIHRHVILSEIKEAVAALPPDVTT QSVMGFDPLAPSDTIY\SYVRPERLKSLS SH\GNTIALFFRSL\PNYTMEGERPVEEG VAGGLNRNQGLNRLMLAVRDMMANF HLNDLEAPHEDDAEGEGEWD
6336	14387	A	7083	420	627	
6337	14388	A	7084	2	380	
6338	14389	A	7085	2	657	
6339	14390	A	7086	2	842	
6340	14391	A	7087	174	463	GSLKQGMFPGSLNRRLPTEPLQILRATF L*KEVA*GLHQYHLPL\QLSGPVFGLTH LQSAPVFREKPDPPPELPSLRVLRRTLDS WGARTHNYGI
6341	14392	A	7088	69	194	
6342	14393	A	7089	1348	2204	TWRLDPQIISPKPQPGGYTLEVVKSSK SKKVLSHP*WPLRLWQR\GGSPEGGT QAPDGSLLPPPPRPKSERVSGPKLSGGKR /EGSHPGGPPHITHP/DGEEKAKSSWFL REAKDPTQKPSHPVKPLSAAPVEGSPD RKQSRSSLSIALSSGLEKLKTVTSGSIQPV TQAPQAGQMVDTKRLKDSAVLDQSAK YYHLTHDELISLLQRERELQRDEHVQ ELESYIDRLVRIMETSPTLLQIPPGPPK
6343	14394	A	709	730	983	GAVAHICKSQQFGRPRQAHQLRSRV*DQ PGQNDETPSILKIQKLAGHGGTRPLSQLL RRLRH*NHLNPGGGGCSELSRHCIPG
6344	14395	A	7090	2	762	
6345	14396	A	7091	2	218	
6346	14397	A	7092	7	78	
6347	14398	A	7093	553	954	SRSRRGQKRRRWSTVWRLSAGACALSM QTPSRTSWPTAPFRAIWRAETVAAWCRL RRPVWRVWSWSCLPTPITRATPLGARS WPGWRMWPPLOPAGSAVPTLR*RPLKF PLPRVPGRRPSGAQSHREQCLQT

6348	14399	A	7094	1	1215	MTLKEHAAPKHLFNKAHLAPPLIHLTSL GHSTCFREHWVGDIVHRDLKLENIMVKS SLIDDNNEINLNKIVTDFGLAVKKQSRSE AMLQATCGTPIYMDRGWNSLEGSEQDR KMWDSLELPRDLLNVFEQNADNDMD EIQAEVLSGDDEELLGNWSKGDSCYVLL KQLAAFCPLRDLWNFKLERDDLGYLV EEISKQSQIEATWVLLKAFSFIREAEHK NLENLQPDNAIEKKIPFSEEKFKLAAEICI SNQEANVNPQDNEKNVSRACQRSSQOP LPLPRVLGGKSGFVGWAQDSHAEIYTFG RILGKGSFGIVIEATDKETETKWAIKKVN KEKLLLMKSNFLQPVRTTLICAVQVSHL ANSFOLKSREKWRKPL*LKEHAAFKHLF NKAHLAPPLIHLTSLGHSTCFREHWVGD VHRDLKLENIMVKS SLIDDNNEINLNKIV TDFGLAVKKQSRSEAMLQATCGTPIYM DRGWNSLEGSEQDRKMWDSLELPRDLL NVFEQNADNDMDDEIQAEVLSGDDEEL LGNWSKGDSCYVLLKQLAAFCPLRDL WNFKLERDDLGYLVEEISKQSQIEATW VLLKAFSFIREAEHKNLENLQPDNAIEKK IPFSEEKFKLAAEICISNQEANVNPQDNE KNVSRACQRSSQOP LPLPRVLGGKSGFVGWAQDSHAEIYTFGRILGKGSFGIVIEAT DKETETKWAIKKVNKEKSTAYEKQFPAT SKDNFDMCSSSFTSSKLLPAEIKGEMEKT PVTPSQGTATKYPKSGALSRTKKKL
6349	14400	A	7095	1	770	
6350	14401	A	7096	7265	7684	IVSLFLFILLVFWWWCFFFFFFFETVLLFS PRLQCRDVTSAHCNFCFPSSDSRASAF RVARITGAHHDWLFICIFSRDRVLSCWS GWSRTSDLR*SALPKCWDYRCEPPCRA* FFFFLYPLTIPTSLPAPHYPPSLW
6351	14402	A	7097	1	344	
6352	14403	A	7098	3	285	
6353	14404	A	7099	346	517	
6354	14405	A	71	134	450	QSPDSMNAREFRRRGMEMVDYVAYYM EGIEGLLVYPDV*PGYLRLIPAAAPH*L DTCEDIISDA\EKIIMPGLSHWHSPDLFVY FDSVSSYARMLEDMQCGALDC
6355	14406	A	710	108	418	GWGGLLIARPPFKRGKSSGPVGHKLPRG VGRRRG*NVNLCPKSSNPQGGLGERPRE LRDKATVSALANFTARKGC*LRGPEGGQ PGPRGKLFPGVPGVQGGP
6356	14407	A	7100	3	173	
6357	14408	A	7101	256	352	
6358	14409	A	7102	1	203	
6359	14410	A	7103	1	112	
6360	14411	A	7104	1	1213	
6361	14412	A	7105	3	413	
6362	14413	A	7106	45	537	
6363	14414	A	7107	2	224	
6364	14415	A	7108	179	393	DKWRRLPWKRGVEVGTAGSLAKAFGFF AEAKTEPREGCSESGVRISYQ*VQQTNS KCLKY*MEPARPTFSP
6365	14416	C	7109	21	410	
6366	14417	A	711	274	394	SPFPKEVGGGKFLNLGGQRFWGPFGPL FSAKTKKGTSFLK*GFKNPPAQGGKPPFF LKIQN*PTLGGGPNLPHFLRRLGGENF*T SEGKGFGDPNLALCSPPKQKKGLLF
6367	14418	A	7110	3	178	
6368	14419	C	7111	134	295	MNSVPLAKSVGLLRTRYDSPKQPLLCS EAVVLICKDLRSGWQKPGTQGIGG**
6369	14420	A	7112	3	864	

6370	14421	A	7113	3	155	
6371	14422	A	7114	1	122	
6372	14423	A	7115	84	579	NWKAGMGRPSTADYAMFKVVHEVD\K YRFTYAYFAGGDAEDAFDGYDFGDDPS DKFFTS\HNGMQFSTWDNDNDKFEGNC AEQDGSWWMNKCHAGHLNGVYYQGG GTYSK\ASTPNGYDNGIHWATWKTRWYS WMKKT\TMKIIPFNRLTIGEGQQHHLGGA KQAGDV
6373	14424	A	7116	19	418	VEMGFCQADQAGLELLTSGDPPASVSQS TGITVLSLSFFETESRSVAQAGVQWRDL GSLQRPPPGSRHSPASASRVAGTTGARR HAWLIFLYF/LVETGFHRVSQDGLDLLTS *SARLSLPKCWGYRREPSAR
6374	14425	C	7117	207	401	MGXXIFXPLXKTPFFPGVWGNFSPGP GXPPPPRGGPPPLFFPQKKGXPPPPFP KVLGLQA*
6375	14426	A	7118	2	681	FFEMESRSVAQAGVQWRDLGSLQAPPP GFTPFSCLSLPRSWDYRRPTILLANFFVF LVETGFHCVSQDSLDTLLRSARLFFFF ETESRSVAQAGVQWRALGSLQAPPPGS RHSPASASQVAGTTGARHYARLIFVFLV ETGFHRFSRDGLDLLTS*SARLGLPKCW DYRREPPRPAVRVYFYNRSVFIEYVQFC KLLFTFKINVRSQNILGSPNILKSLLKNLN
6376	14427	A	7119	3	265	FFFETESRSVAQAGVQWCHLGSLQPLPP GSSDSPASTSRVAGVTITAT*VAGTTVV RHHAWLIFVFLVETGFHHVQAGLEHL DLR
6377	14428	A	712	59	306	FGTDRTAVQTSSQRLCLPWVAQKTYW LLVPSSLLKDLKEKEVEEA*NGRDAP ANGNAVSVCFAPFPWQLPHKIFPVLL
6378	14429	C	7120	359	583	
6379	14430	A	7121	279	566	FRRRFPLISLFFFFLFFCFFFETESRSVA QAGVQWRDLGSLQAPPPGFTPFALSPRL ECGAILAHCKLLPGSSHSPA\SANRVA GTTGTRHH
6380	14431	A	7122	237	523	PQEFKTSPGNVARPQLYNFFFFFETESR SVSQAGVQWCDLGSLQAPPPG\SHHSPA SAS*VAGTTGAHHHARLL\FVFLVETGFH CVSODGLDLLT
6381	14432	A	7123	1023	1459	KGTRKRGQGIKVHLPILLFNLCFCTFG LFLVFLFLFPFFFFFFEIESHVAQDGVQ WCNLGSLQTPPGSSDSPASAS*VAEITG TRHYAWLIFLFL/VEMRFHHVQAGLEL TSGDPPASASQSAGIRVMSHRLVFLYY K
6382	14433	A	7124	1794	4614	RFFSFFFFFETESHVAQAGVQWCNLGS LQAPPPGSRHSPASASRVAGTTGAHHH ARLIFVFLVETGFHRISQDGLDLLTS*SA RLGIPKCWDYRCEPPLASI
6383	14434	A	7125	2	441	FFFFFETESRSVAQAGVQWRALGSLQAP PPGSRHSPASASQVAGTTGARHYARLIF VFLVETGFHRFSRDGLDLLTS*SARLGLP KCWDYRREPPRPAVRVYFYNRSVFIEYV QFCKLLFTFKINVRSQNILGSPNILKSLLK NLN
6384	14435	A	7126	3	226	CETESRSVTQAGVQWSDLGSLQAPPPGS RHSPASASQVAGTTGAHHHARLIFVLLV ETGFHRVSQDGLDLLTS
6385	14436	A	7127	153	504	KHFFFFFFFETESRSVAQAGVQWRDLGS LQAPPPGSRHSPASASRVAGTTGTRHRA WLIF/VYFLVETVFHRVSQDGEL*KLYRE NSIENILVQKCLKVYFSHCSRSEITVTGN NLL

6386	14437	A	7128	3	313	FLFFETESCSVAQAGVQWHDLGSLQAPP PVG SCHSPASASQVARTTGTRHHPRLIFF/ VFLVEMGFHHVSQDGLDLLTLGSGHLSL PKCWDYRCEPPHPSSPSY
6387	14438	A	7129	3	307	FFFFFETESRSVAQAGVQWRDLGSLQAP PPGSRHSPASASQVAGTTGARHYARLIF/ VVFLVETGFHRFSRDGLDLTS*SARLGL PKCWDYRREPPRPAYF
6388	14439	A	713	171	565	TLAFLIPCIGSPACPTMSDAAVDTSSUIT TKGLKRRRRKLWEEAENGRRPCLTGN AENEGKWSREADNEVHQKEE*CGEEQ EEEEEGDGEEEDGDEDETLSATVTRAT EDEDDDAVPTKQTTRLDE
6389	14440	A	7130	2	91	
6390	14441	B	7131	3686	14131	MTNAFQYVQKNRGIDSEDAYPYVGQSY YNLVSSSQEESCMYNPTGKAACRGYR EIEGNEKALKRAVARVGPVSVAIDASL TSFQFYSGVYYDESCNSDNLNHAFLA VGYGIQKGNKHIIKNSQSAQTVLTPDE CLLGYLDKGLKRKDKAGSLQWAYM AIARLGGFMDSMPTGIAIWGALX*
6391	14442	A	7132	8044	8378	YIDVKTFFFFFLPETESHSAQAGVQWH DLSSLQPLPVGSSDSPASASRVAGITGTH HHAWFIFVFLVGTRFHHLGQAGLELLTS SDPPASAPQSAGITGVNHHTQPQKFI
6392	14443	A	7133	3	283	
6393	14444	A	7134	2	177	
6394	14445	A	7135	1	491	
6395	14446	A	7136	3	612	
6396	14447	A	7137	2	137	
6397	14448	A	7138	1	2631	
6398	14449	A	7139	2	112	
6399	14450	A	714	1	1497	
6400	14451	A	7140	67	245	AYNLS DGQYGLVDPEFEYYFWLCCWLP L*LGKCLWVLPVSVSGDRNDNDQAER NGSHL
6401	14452	A	7141	356	2252	RSFLDEEFPHYDSLSCADAIQPLQELK QCCHKLYGGQEARHQTPILTKHTCWY TPLLDALSLSFTAVPTLESTPFSGVANQ IHTLCERPTYGEVKDGDALDVKRQHKCPG PTSGPSPGTNLSCIRMNDPSMEENG ERVCPESLLQSRGYSSLPLPRHTSSTDGTI TSSDPGLEILNMASCDLDRNSLCKKEED TRSASPTIEAQGTSPAHDNIAFDSTSKD KTILNLEAKEPETIEEHKKEHASGDSVV SPLPVTTVKSVNVRQSENTSANEKEVEA EFLRLSLGFKCDWFTLEKRVKLEERSRD WAEENLKKEITNSLKLLESLTPLCEDDN QAQEIIKKLESIKFLSQCAARVASRAEM LGAINQESRVSKAVEVMIQHVENLKRM YAKEHAELEELKQVLLQNERSFNPLED DDCQIKKRSASLNSKPSSLRRVTMALLF LPRNYLGNAGMVAGMENNDRFSSRSS SWRILGSKQSEHRPSLPRFISTYSWADAE EEKCELKTKDDSEPSGEETVERTKPSLS EKKNNPSKWDVSSVYDTIASWATNLKS SIRKANKALWLSIAFIVLFAALMSFLTQ LFQKSVDAAPTQQEDSWTSLEHILWPFT RLRHNGPPPV
6402	14453	A	7142	1	835	
6403	14454	A	7143	1	3735	
6404	14455	A	7144	2	1161	

6405	14456	A	7145	126	572	NFSSNKWNTSQNFANMDNSAQKNERTG KHPRRASEVQKNDIPGPGFYNVIHQSPV SNSVSLSKKGTCMFPSMCARLDTIVSKY PAANAYTIPSDFISKRDFSNSCSCSMFQLPS FMKALKFET/PLAPNYYNASVSCCKRRN NVCTRAGF
6406	14457	A	7146	1	1261	
6407	14458	A	7147	107	227	
6408	14459	A	7148	3	407	
6409	14460	A	7149	3	608	
6410	14461	A	715	32	3730	NSERRGLGMSLADELLADLEEAEEEEEG GSYGEEEEPAIEDVQEETQLDLSGDSVK TIAKLWDSKMFAEIMMKIEEYISKQAKA SEVMGPVEAAPEYRVIVDANNLTVEIEN ELNIIHKFIRDKYSKRFPPELESVPNALD YTRTVKVS AEKELGNSLDKVARAIEEPW QQILT NATIMVVS VITASTPQQQLSEE ELERLEEACDMALELNASKHRIYEVES RMSFIAPNLSIIIGASTAAKIMG
6411	14462	A	7150	2	212	
6412	14463	A	7151	3	91	
6413	14464	A	7152	1	115	
6414	14465	A	7153	1	1279	MGDTPRQFGGARPRSGGALRGCSRGG GNRRGLCLSRALANGDRRLTMDDDIAA LVVDNGSGMCKAGFAGDDAPRAVFP VGRPRHQVMVGMGQKDSYVGDEAQS KRGILTLKYPIEHGIVTNWDDMEKIWHH TFYNELRVAPEEHPVLLTEAPLNPKANR EKMTQIMFETFNTPAMYVAIQAVLSLYA SGRTTGIVMDSGDGVTHTVPIYEGYALP HAILRLDLAGRDLTDYLMKILTERGYSF TTTAEREIVRDIKEKLCYVALDFEQEMA TAASSSSLEKSYELPDGQVITIGNE\RFRC PEALFQPSFLGMESCGVHETTFNSIMKIC DVIDRKDLY\ANTVLSGRTPPCTLGIADR MQKEITALAPSTMKIKIIPPERKYSVWI GGSILASLSTF\QQMWISKQEYDE\SGPSV VHRKCF
6415	14466	A	7154	1	111	
6416	14467	A	7155	143	295	
6417	14468	A	7156	186	437	
6418	14469	A	7157	3	356	
6419	14470	A	7158	1	220	
6420	14471	C	7159	102	407	MDAGLEAMQKYGKAAPGDRTMLDSLW AAGQELQAWKSPGADLLQVLTKAVKSA EAAA EATKNMEAGAGRASYISSARLEQP DPGAXAAAAILRAILEVLQS*
6421	14472	A	716	3	117	HKRPLMASYLLFFCSFVRVE*TIITCLT** ECHRYNR
6422	14473	A	7160	1	2302	
6423	14474	A	7161	1	178	
6424	14475	A	7162	60	413	

6425	14476	A	7163	2	1420	NSGVGAGARRAARCRAEAAAAGVTARS PALGMALLVLGLVSCTFFLAVNGLYSSS DDVIELTPSNFNREVIQSDSLWLVEFYAP WCGHCQRLTPEWKKAATALKDVVKVG AVDADKHSLGGQYGVQGFPTIKIFGSN KNRPEDYQGGRTGEAIVDAALSALRQLV KDRLGGRSGGYSSGKQGRSDSSSKDVI ELTDDSFDKNVLDSEDVWMVEFYAPWC GHCKNLEPEWAAAASEVKEQTKGKVKL AAVDATVNQVLASRYGIRGFPTIKIFQK GESPDYDGGRTSDIVSRALDLFSDNA PPPELLEIINEDIAKRTCEEHQLCVVAVLP HILDTGAAGRNSYLEVLLKLADKYKKK MWGWLWTEAGAQSELETALGIGGFGYP AMAAINARKMKFALLKGSFSEQGINEFL RELSFGRGSTAPVGGGGFPATTVEREPWD GRDGELPVEDDIDLSDVELDDLKDEL
6426	14477	A	7164	547	980	
6427	14478	A	7165	3	1290	LYSSDDVIELTPSNFNREVIQSDSLWLVEFYAPWCGHCQRLTPEWKKAATALKDVVKVGAVDADKHSLGGQYGVQGFPTIKIFGSNKNRPEDYQGGRTGEAIVDAALSA LRQLVKDRLGGRSGGYSSGKQGRSDSSSKDVIELTDDSFDKNVLDSEDVWMVEFYAPWCGHCKNLEPEWAAAASEVKEQTKGRVKLA AAVDATVNQVLASRYGIRGFPTIKIFQKGESPDYDGGRTSDIVSRALDLFSDNAPPELLEIINEDIAKRTCEEHQLCVVAVLPHILDTGAAGRNSYLEVLLKLADKYKKKMWGWLWTEAGAQSELETALGIGGFGYPAMAAINARKMKFALLKGSFSEQGINEFLRELSFSGGSGNGL*GGGGSFSLPIVEREPWDGQCGRFPWGDDH*PSVDAELDDLKDEL
6428	14479	A	7166	335	519	ILFPGSGQLRSSDQKAAKLALL*FQKRS EMYKTK*FWGRKMSQFFSVVRHTNPG SRLWA
6429	14480	A	7167	2	386	
6430	14481	A	7168	311	493	
6431	14482	A	7169	2	82	
6432	14483	A	717	1007	1118	APGPCPNQTLARDSGWVG*KNHQLCTC VCVCVCVCVC
6433	14484	A	7170	51	347	
6434	14485	B	7171	188	353	XDVVVPVANCQVQEYNSNPKEHVTLRD YITYWKEYIQAGYSSPRGCLYLKDWHLC S*
6435	14486	B	7172	188	353	XDVVVPVANCQVQEYNSNPKEHMTLRD YITYWKEYIQAGYSSPRGCLYLKDWHLC S*
6436	14487	A	7173	753	1216	QVVEVGPPRGRHPSAAGCPSPA*RRWKT RRAGWAARSPAQSRRRRRRPPRRRLP GPEPGRRRGHRPPGLGSGCRRGRASRG SSSARVEGPSSSLPPERKR*GPASEPEDA GRRVSAPPAPGARACTHARGSPRSSLR RRAAEAARSALGLV
6437	14488	A	7176	27	285	VFFFFFFLRRSLALLPRLECSGTIVFLVE TGFTMLARMVISIS*PRDLPALASQSAGIT GVSHRAPASFNLTINILPPLLWTF
6438	14489	A	7177	12	336	SPVQL*F*LFLVFC*LWSWSAVVYLGPL GTPSADAHT/AGLSKTPPHWAARARLDD VFSLRTFSSHSLNMELVQDLTASAPMYS STSRDPP/CLGLPKCWDYKREPPRAH
6439	14490	A	7178	74	463	HISQHDSYLVLLASYKTASFLFFFLRQ SL/DSVTQAGVQWRDLGSLQAPPPGFTPF SCPQSPK*L/SSWDYRRPPRPANFFCIFV EKECFTLLARMVISISWPRDLPASASQSA GITGMSHRARPAQVS

6440	14491	A	7179	1	412	TRMGLPDASRRRTCRMDPEGWQEAMSS A*GRITLQRLSTGPEGQGGREKVGPEGG SENPOQPKAAGVLSKHLPGAPAPPPQRP PSSPPPLAGPLTERVEKVCDFLDAAGDY LN/GTPG*PSPGESPAADPPVPPWPP
6441	14492	A	718	1692	2123	SQPRFSWTQERLRLFPGLLNSLIVSQAT QGPKLSCLGSCLMAFTFKKMEPSPMSCS PQCFGKPMMGRLSGGQKFKNQAGQYH KTPSLRKSKKLASHGGVHLWS*LLRRLR QEDCLILGIRGCSEL*LHLCTPPSATQRDP LS
6442	14493	A	7180	117	295	
6443	14494	A	7181	279	1065	IQHPRLSADDFRVNCETEPAM/*HAVEN DIHGLCELQLETEIQAFKEELL/FMKKNH EEEVKGLQAQIASSGLTVVVDAPISQDFA KIMADIWAQYDEVAQKNREELDNNSQ QIEESTTVVTTQSTEVGAAMLTTELTR TVQFLEINLDSMRNLKASLENSLREVVA RYALQMEQLNGILLHLESELAQTWAE GCQAQEQYQALLNIKVKLEAAIATYRLL EDGKDFNLGDTLDCSNSMQTIQKTTTR R*TRQIVDGKVVS
6444	14495	A	7182	60	846	IQHPRLSADDFRVNCETEPAM/*HAVEN DIHGLCELQLETEIQAFKEELL/FMKKNH EEEVKGLQAQIASSGLTVVVDAPISQDFA KIMADIWAQYDEVAQKNREELDNNSQ QIEESTTVVTTQSTEVGAAMLTTELTR TVQFLEINLDSMRNLKASLENSLREVVA RYALQMEQLNGILLHLESELAQTWAE GCQAQEQYQALLNIKVKLEAAIATYRLL EDGKDFNLGDTLDCSNSMQTIQKTTTR R*TRQIVDGKVVS
6445	14496	A	7183	645	861	KYYRKRGIHSAIDASQTPDVVFASILA S*ATCKDLVMFI*CWVQEGISFHPCEAM GGNDRTGKEKLPSG
6446	14497	A	7184	2	1327	RPQSLSPVLSLSPDSMSFTTRSTFSTNYRS LGSVQAPSYGARPVSSAASVYAGAGGS GSRISVSRSTSFRGGMGSGGLATGIAGGL AGMGGIQNEKETMQSLNDRLASYLDRV RSLETENRRLESKIREHLEKKGPQVRDW SHYFKIIEDLRAQIFANTVDNARIVLQIDN ARLAADDFRVKYETELAMRQSVENDIH GLRKVIDDTNITRLQLETEIEALKEELLF MKKNHEEEVKGLQAQIASSGLTVEVDA PKSQDLAKIMADIRAQYDELARKNREEL DKYWSQIEESTTVVTTQSAEVGAETT LTELRRTVQSLNDLDSMRNLKASLEN SLAREVEA/RRTPQMEQLNGILLHLESE LAQTRAEGQRQAQYEALALNIKVKLE AEIATYRRLLEDGEDFNFGDALDSSNSM QTIQKTTTPPG*VGLGKVVS
6447	14498	A	7185	2	345	FFFFFFETESRSVAQAGVQWRDLSSLQA PPPGSRHSLASAS*VAGTTGVCHHARLI FVFLVETGFHHVSQDGLNLLTS*SAGLG LPKCWDSEKLFFFFGDKSFRFCCPGWST MV
6448	14499	A	7186	178	388	RREPLHPANLLLFFFFFFEMESPSVAQAG VQWRDLSSLQAPPPAGSCHSPTSLS*VAG RLRNKNCLNPDAW
6449	14500	A	7187	546	850	FSVLFFFESESCSVLQAGVQWRDLGSL QPPPPGSSHSPTSAS*VAGTTGTCHHTQL IFIFLVETGFHHIGQASLKLLTS*FAHLGL PKFWDYRCEPPHPA
6450	14501	A	7188	4	410	PIERPHELKHRPLPHVQKLVEDVGDVIP AALEEGQAGWSHGFLVFLVEIKSAEGP/P GPADSRVRGVRPQRSQSAGPA*RAGRQ DGVCRSLGQGRGGGRATSLVLHPPGY GCWFSVGVPSLPQYTGIRSSSPRTRG

6451	14502	A	7189	148	268	LQPR*PLTCAPPCPVQTQTHPISVSQTLL GLEFCCSLSL
6452	14503	A	719	1	371	HRHCHPSHTVDGRMESIDVATDGG*RTG VLAVSGLSVSLRTAELSTRKLLMNSEQRI NRIMGFHLRSGGAVE*RHTQSMQHDSD KLNSLIIPSVSKRVVLVDSVCTGTTDHQG GVLERKVTTL
6453	14504	A	7190	397	1449	RSHPSTGRRTSRLESWFLGVSCCKSKV REGPLGPA**AG*RGVRPQRSQSAGPA*R AGKRQDGG/SPEPRAGVGGEVGTQSP/GP SGASGYPGMLVSKPVGGTSASWLPAGC PIPS*LS*QRSQSPSSCLIGHLLALWAAF GLGVTSLPQYTGIRSSSPTA*ATVQDGS HKGGTGGTGLGRGRNTQPDAAACGRGHR SSPTR/RPHGNPNNGTGCAEGGQARSLLP KLAPKLPGWVPSVPVAVGPGDFGWRO AQYQSSLWDLSSPRNTLGRSATSAGPAP PALLGAGSGRSSGTSPAAPGCSSRCHCW ASAPAGVSGGPG/GRGAEAPPSPTLAQR GSPPGVAAIFPPACGIPP
6454	14505	A	7191	47	1654	LHVPARPPGCGGAFLAGGPCPGWGQPR AQLWPQ/SAAPGPPHPALPSPVFTWP RLLSH*S/RPA/VEQCPPEPHVYPDPASS WVPKSASPPRVACPCPPAL*/PFGDSCS LCTAGLRGPGHDTQLPQVWVRPHPGAS AEM*AHKPPPLAQKPPRPSISVPQPSAQL WYPAGPWVPT*AGTWLGYGAI*SPQGLF SFYEMEHGVPASLNPPKWEPHDRV*LGG GR*GKSEVPRGTPSLTGLFRGVPPQGPPI TGTQKHPPNDMVSFLISFFCLFCGFQ G*/PPGL*SIHIEPLTGLPGCQG*A*P*VLL STAGSAHAV**GSELVHLQS*LHFPSFCP PPVLALDLQVCRPALSAFLACGPPAIPGS WSPEGPVSLWMGVRGVVPLCGLSLYPA L*NLARRGPGQFTGK/IGEGTPTPHKPC NHQVRKLGVLPPQGGVKTIEVGFWGPT R/PKAGETR*VGRVPQSLA*PQCVSP LP*LSGTPGRSWG/PVLSPTPAHSQALRL CGHSPPCWSLVIGLELYFDAMKTLFISNV YIF
6455	14506	A	7192	4	496	NRRTERLGRWCPCTGAWPAPVNLAKLA PS/HDSEQVSGCVPLAQSMAPPGPAWR AGHHRRRSENPRPGFFGSFFKRFGTNR GWSRRDDDPGGPGSGSRWPPAPRRGGQ WRCPREPG*RRSSAGRGSSPCALRHRA TKASSSCSSPCPTPTKRERALAAASC
6456	14507	A	7193	3	514	SVPKREELQGHHRVRGGEHRVWTRQDV LQHRLPATSVWTHPVLPTARAPALGRA SGAARRTAARAAPLPAVPAAPAAAPGRA RPTTTWPASPPSPRSASPTAPSSACWSP TP/GSPFALRPLRAGLGAVYTRSRAHPRR PLPAHLCLVRHRATKASSSCSSPCPTPT KR
6457	14508	A	7194	2	324	GGGFRPLFPPLWRPKPVGPPRVEIFGPAC PPWENPFSLKIPNLPGVVGPSDYSRFS SEG LARKLPLTRKGRFR*PKFPPLPSFLGKKR EIRFPKKTKKKIFINSSSSC
6458	14509	A	7195	3	344	ERQKLHYKYSKQFLTFLQDWNNTNWKAE EPEEQKLATMFREQQKSL*ARMVQRQ RH*NKLN*NQQFLRSLEDLEENQSSFTD EQSDLRKEMARLQTKLMKETLQDLALI HSC
6459	14510	C	7196	68	319	

6460	14511	A	7197	56	945	HRKLDNRNYSRHMGCSPGPEPRRAEEPC PPRCMPKETGAFRSHTRSRLGPF*SLAE PPF/PRVPVSRGPLSASSPPPLSSRDAGLQ TSQLLP/SWGWSVPNSIPELDLGPLSPTGR LSAAFPCRSPPSTGNKDATSQVDSHPH PSFRSPGLELSRCPGDPVTATSPHEWTQQ GKDWRPCSCPLVMQAPPTSHIFLPPPSRS SLRRPRAPSGCPWGCLG/RPPAGPWATP LAGLPSWS\GVRLPG*GVLPASRGSG*G PPRHRPDAGSERPAAAAAGFAGP*VCSN SSALPSVYEGLL
6461	14512	C	7198	161	262	MLKGIPCLHPPLASSSQSDNSQKCLQTLF SLPR*
6462	14513	A	7199	132	1007	NPQAPQATKKEGRKNARKGGSVCSGVP WGPPPRKVPTVPWRAESPGGESHAGFE SLRHGHAGAGPKGMPRLPTENTVSAE GSTGGESGARVPDTGKGL*PATHPLPWG SLSGF*ETQRL*G/PCLEGG/YPGEAGQSL ETFLAVV*LGAAG*GWVEARDTFKHPTV CRTAPTKEDSPPETQQSGAGIGEAAVWC QPHIGRRALQEACGEHGRGRFGGNHA E/PDRGGNEAAPTNNNPHPDGHTSL*G/ VTGPSP/PGRWGN*GPESSEPLDGPAPH PPTSWCGLFLRSFRLHS
6463	14514	A	72	218	428	LSSLPTTISR VFYNLS/CSHL*YSLKHFFIY LFIYLFYLFYLFIFETESPLSPRECRSGI SAHCNRL
6464	14515	A	720	3	408	DAWANARSVRLEVAGLRRDL*R/CSER WPLARATPFCFGSAMPYQEESENLSLQ ALESRQDDILKRLYELKAAVDGLSKMIQ TPDADLDVTNIIQADEPTLTTLTALDLNS VLGKDYGALKDIVINANPGFPPLF
6465	14516	A	7200	59	326	TGLSPGSEIGALPGNLV*APFFFNPKNLP GAVGP*PGVPPFWGG*ARGLGGPRSSEFP LVGLGPLAFRLGTLGPVFKKNQESKKK TSV
6466	14517	A	7201	3	263	TLRKKFFQPGKTTFRSPHTPVSSFFPQKK EKL*GGNPPKFPKPKKPPKPKP/HPSSS PPPKSSSSQSHAPPKGPPPEPLKKNPP
6467	14518	A	7202	1	348	RYRSGIPGRRTRAGETPSLLKIQPG/GD GARS*SRLRLRLQENRLNPEGRGCSEL RLCHCTPAWARE*DSLKKKKKEFKIPIY FLTLLWDVFRYTQYYSIPMCLLCGEMVT DI
6468	14519	A	7203	3	441	SSGSRSECRFLPLLNVVLEILAGAIRQ/Q KE/IKGIHIGKVKSILTEVINKFIKVA*Y KIN/SNKSVCVCLYTNNEQLEKFKISSSS SSSSSSSSPNH*GKDLYNENLKTLLKEM KENKWINIPCSWIRRLNNVNISILSKVTY KF
6469	14520	A	7204	3	310	TINCVDITDIYRLHPSTADCTFCPSSNGI FTNIGHILGKTHINKFISIEFI*CLLSDHRI KLEINNKTWKIPKYL*INTLIKECEEQF *NTVN*NPNTI
6470	14521	A	7205	3	88	
6471	14522	A	7206	2	1053	TMPSSVSWGILLLAGLCLLPVPSLAEDP QGDAQKTDTSHHDDQHPFNKITPNLA EFAFSLYRQLAHQSNSTNIFFSPVSIATF AMLSLGTKADTHDEILEGLNFNLTEIPEA QIHEGFQELLRTLNPDSQLQLTTGNGLF LSEGLKLVDFLEDVKKLYHSEAFVNF GDTEEAKKQINDYLEKGTQKQIVDLVK ELDRDTVFAVNYIFFKGKWERPFVK DTEEDFHVDQATTVKVPYELKRLGM FNIQHLKKLASSWGAA**KYLGNATRH LLSCLDGGGNLQHLGKIELHPTIIHSPSFL GEIEGQ/DRSCPALHFTQIVPLLGTYGFLK SVLGFNWGIH

6472	14523	A	7207	2	334	RDPPGPGPATTARERKCAKHPSLHQITV THLKL*VVLAQLTLEEPHCHANPD LIFE DMEAMTDLELHELCCQDRHINNFQ LDM DLILD SGKFQVVG CILSELKQKDSSN
6473	14524	A	7208	1	306	LRRS/LCSVAQAGVQWWDLSSLQPLPPG PMPFRLSLPSSWDHRRPRPLPANFLYF* *RRGFTVLARMVSI*PCDPPASASQSAG ITGVRHRTQPPRYVFM
6474	14525	A	7209	156	331	QPLILRCLPPRSIYRFNSIPIKIQVTFF*EK EKSLLKFIQNLKGP*ITKTILRKKKVD
6475	14526	A	721	25	494	PLTVSERWPLARATPFCFGSAMP MYQV KPYHGGGAPLRVELPTCMYRLPNVHGR SYGPAPGAGHVQEE SNLSLQALESRQD DILKRLYELKAAVDGLSRRIKPPRATLD\ ETNIIQADEPTTLTTNALDLSVLGKDYG ALKDIVINANPGSPPLS
6476	14527	A	7210	50	269	FRNIKHQRDYNEQ*YG/NKLDNPEDMNK F*ETRYT*/PNLHQEEIGMLNRPVTNKVL *LVIKIPLTKKSPEPDGFV
6477	14528	A	7211	584	1001	ILKLWGVGTG*TKVPPQVPPTPHSRA*GP PRRECLRRQ*PRP*SPGFGPLSPTSVELM GVKTVLSQGASRERGSWG*KGSPLNGR QFWAQGGA/LSWVAWGGGGGWRGSNG KG*QPGEQGSSLQPLIPPRTW RMGPQG
6478	14529	A	7212	79	315	ERDFLFVPRVGFQGP NLG*LKFPLPGLPL FSGLTLP/RNWGLRGPFTTPG*FLDFLKK RGFNIVAQVGLKFWTSGDPPPL
6479	14530	A	7213	247	827	KYLEIVLLLKY*RNESC VFILKCSFSLIL LELTMMKKILCLIIY*LLTVQTVTQWIFV CPPKTF*S*AIFNKDV*ILILIVVKKLLV WVQYILSFLILLKLNI*DVCFVLLH*VLF KNSLCVYELILD LFLYSMIKDN*KFCTVFL GPWKVFV*YFLRMSIYFVHNKLALYMK MGLNQIKKVMLLSSKKK
6480	14531	A	7214	1	311	LNREKLKAPLTSGT*QE/CPLSPLLFNVV REVLATAJRQEKEIRGIQIGKEEVTL SLFV DDMILYLKKPKDCTKKPLEL/NTFSKVA* YIINIQISVAFLNAKSK
6481	14532	A	7215	6	375	ESLRSPSRFS*PSPAYRGHGCSR PASTH NGDPCRAEALSDTPVPQSSGSDHNEKG PSRSPFQLH*PGPWGPAGCRGRPA TPW RLVAGPLRDSQEDPPSPEEPGSGGAAGQ GGG*GLSCFP
6482	14533	A	7216	80	251	GKFHISKTL**NINILL/VQLSVVAIGINIY RTSNVEVLLQFLEDQNTFPNFEHLAYR
6483	14534	A	7217	161	333	GKFHISKTL**NINILL/VQLSVVAIDINIY RTSNVEVLLQFLEDQNTFPNFEHLAYW
6484	14535	A	7218	3	299	PPFRTHQARRFAPTQD WQIGFTQH/RP/G VRKQKYL LV*VDTFTG*VKAFPTRSDKA TAVITSLSDIIPRIGLPTCIQSSSTLALISQ ISHPSCQAATIQ
6485	14536	A	7219	526	1108	TQTKNSKIYFN*LLF*ETGPHSLSPQAGV WWHSHISLQPQPPGLKVHPHPSLLSSWD YRHTSLRPANF*KIFVETGSLHVAQDGLE FLGSSSPVSASQSARIAGMSLGARARPC LK
6486	14537	A	722	358	445	NSFGRTIFFFY*FFFFFFFFFTIQTFKGGPL SPFFLLFFINPFRFFFFF*TPFLRALAFF KPFFFFKIVLAEPYFFFTNPQILMRGGGG FSGRGS
6487	14538	A	7220	181	272	IQSWFNILKSIHVIHHSNRLK/NVNHIVSS SSSSSSSSSPFLIKKQ*KG
6488	14539	A	7221	2	334	YDEEWRRSTVHPDEVGNLK*EDR*ALQ NRLRVFLSLMDTGWLDNLLLDIDKADVI VKMLDA\SVIKMEGGTDNDLNILDQDVE DEHA*KPGEPSKNEGRAVSGLDGERK

6489	14540	A	7222	1	323	VVSYLLVFSSSK*KKIYQDCIGFVQDC LNNDPIDSLRGKNVHSLDTEKVVGKIQ* PFMTKIFSKLGIEGNFLKWLYQQSSTVS LLNV*ILKAFLSRTE*GCM
6490	14541	A	7223	2	690	ATYIVDFGFQYNIREGQMLTAFCGMYP YVAPERSLGQACQ*PARDIQSLSVILYFR NTVGRRARTLPFYS/AEASKLQEKILTGR YHAPPLFALQLDSL/IKLLMLNARKGPSL *LMKNPWVKRIQKMPLIPYEEPL/RGPPQ TIQLMVAMGFQAKNISVAIERKFNYPM ATYLIL*HTKQERKCSTIRELSLPPGVATS PSPSTELSTFPLSLMRAHREPAFNVQPPE ESQ
6491	14542	A	7224	2	338	SSSYTPEYWQ*RSRSHSPMSNQRRTGR RANPDNTCLRVFGLSLYTDRDLREVC S*YGPLNGANVVYNQQTGRSQGFVH F*GIDDSKEAMVRANRKELDLRRVRVD YS
6492	14543	A	7225	604	841	RPGGQFCLMEASPSGFNPFFLLNLPREW ELRVPPPTRGNFF*FLKKNGF/EVNPGGF DFLN/SNDPPAFASKGVGLTALTP
6493	14544	A	7226	3	343	HEPNGFYAEIECERCNSPELDEEGYSIIPD EPGSTNGKHFYSSSESEY*E*SHKIYIQUIK PSLSTDILNNAAPVDELKASIGNIALSP*P EKAIRNLSREEVARPRRFTSP
6494	14545	A	7227	3	304	HEEKNEKIRNVGLCEAIVQFTR*YL*VCL *RSVNS*NCCWRIVPNIFF*PL*TFSPSKP AKSLHTQKNRQFFNEPEENFWMVMVFT YTVYLSEIVWVELW
6495	14546	A	7228	1	167	SARGPDGFTAIFYQTFKEELVQILLKQFQ RIKGEASSLKS*ETSITLIPKTRKGT
6496	14547	A	7229	2	334	ARDRAALETVIRRARPELRRPGVQGIPR VHELKIEEYVQRGLQRVGLDPQLPLNLA ALYAHVA*EKRVVSILSRITILIVL\VESLI LLIIVLTGYQLSILCTCSVGNIF
6497	14548	A	723	452	764	LLFSKCRAVEKNLSKEDPHMETIKVAFV MTSGERDTGLTEPMAG*RG*GS**DGP ARGHETSLGHRGVSGDGGSMGPSLTAN ALPSISRPFPSVTDSGSAPL
6498	14549	A	7230	1	792	FFYREVKPSLFDCKILITEIPKES/NRVL QITRELSKMLAYKVSMKLSILFILTREYK KVKMPFNIVY/NNTKYSRINLMKDIYDL YTAIYPSTAALKYRYMCNLQNIARRN*R PPLNKWW/REE*YSWIEGLVKILVFPKQ IYRFNASPNKKSPLFNKLIPKFP*KYKG RRISQTNLGR/TLQDLKIYYKTLK\NIV WYWYEVQRLLPPAPQSAPIPTCWQLS PSDLQGLKGAEGLTDWGGKQSGTEITS GHLPLSTFG
6499	14550	A	7231	1	2541	
6500	14551	A	7232	560	901	GNPATPSHCSLPQPTPQEGAA/YNPDFF FF*KQP*QPKQVSSQPPWPLSTSLPPACP SCSRAPAVPAPIQAPSAILPLPGQSVER LCVDPRHRQGPVNLLSDPEQGVETG
6501	14552	A	7233	13	2931	EEGRQQSPAADVKTGLRAPLAASAWPH RCCVRLLARITMKPPRPVRTCSKVLVL LSLLAIHQTTAEKNGIDIYSLTVDSRVSS RFAHTVVTSRVVNRANTVQEATFQOMEL PKKAFITNFSMIIDGMTYPGIIKEKAEAQ AQYSAAVAKGKSAGLVKATGRNMEQF QVSVSVAPNAKITFELVYEELLKRRRLGV YELLKVRPQQLVKHLQMDIHIFEPQGIS FLETSTFMTNQLVDALTTWQNKTKAHI RFK

6502	14553	A	7234	3	338	DAWVSVLCCNLSEAKRRINSLSYNQCN IRRLPSF/RDVWNGENSRVYEQASEQQ VELLTNERYLMEESQLLLQYLHVYHMN YFLDLTCRPTFYCYLTEAPIG*PMCKGYL S
6503	14554	A	7235	147	380	ASCRFDFFCLLCYRVLFSLNLTVFCFAYR YFNIYMSFCFTFFLYFWWL/FCYDFLL/D YVF*TLILVLVCFPPVSFVMFLI
6504	14555	A	7236	1	257	PTRPDFFAQQHLTPDKIYHVTVMPCYD KKLEASRPDDFNQEHQTRDVCVLTGGE VFRLLLEEGVSLPDLEPAPLDSLCSGAYA *EPTSHR\GGGSGGYLDHVFRHASLQFLD S/DVV*VSSIHLR**DFFAQQHLTPDKIY HVTVMPCYDKKLEASRPDDFNQEHQTR DVCVLTGGEVFRLLLEEGVSLPDLEPAP LDSLCSGAYA
6505	14556	A	7237	2	502	PVWWNLQRRTSAGPGTAVPGLAVA*FR QTGLTRSPSSGRDGAGVRDLWNPPPPVP IPLPLGFHLRGPDSLAEQPSACLPGS/PP CRNGLGQPQQHGLWPG*IGIQFRLGFH GNQGPFGPSNLPYPFLFAAPLHTRHVP /LHCCPLTWAALPTPLCLWRCSAIQD
6506	14557	A	7238	1	828	
6507	14558	A	7239	2	775	NISREMLQQSKILKVRKNLVKKCLELFT ELAEDKENYKKFYEQFSKNIKVGVNNH* FSNWPL*FFFFFFNSESLCKEHTLFQLGIH EDSQNRKKLSELLRYYTSASGDEMVSLE DYCTRMKENQKHYYITGKRTLCSYHT RRSYNLVGSVGVFSTQVALLQLVLI*AR* LT*TRSFVLSA*VSG*QEKSEDETLN C*KV*K*LCNTSGETKDQVANSAFVERL RKHGLEVIYMIPIDEDCAQQLEEF*GK
6508	14559	A	724	209	384	KYETIRYRDSVKGRFTIF*HLTKNCLHLR AIGLGADDSHFYSCANDVADSGTTLFFD S
6509	14560	A	7240	1	2303	QLLQRPVAVPLVLCGHLAKMPEETQT QDQPMEEEEVETFAQAEIAQLMSLIINT FYSNKEIFLRELISNSSDALDKIRYETLTD PSKLDGKELHINLIPNKQDRTLTVDTGI GMTKADLNNLGTIAKSGTKAFMEALQA GADISMIGQFGVGFYSAYLVAEKVTVIT KHNDDEQYAWESSAGGSFTVRTDTGEP MGRGTKVILHLKEDQTEYLEERRIKEIVK KHSQFIGYPITLFVEKERDKEVSDDEAEE KEDKEEKEKEKEKESEDKPEIEDVGSDEE EEKKDGDGKKKKKKIKEKYIDQEELNKT PIWTRNPDDITNEEYGEFYKSLTNDWED HLAVKHFSVEGQLEFRALLFVPRRAPFD LFENRKKKNIKLYVRRVFIMDNCEELIP EYLNFIIRGVVDSDDLPLNISREMLQQK/S KILKVRKNLVKKCLELFTEL/AEDPANY QK\FYE\QFSKNLKALEYHEDS\QNRKEA FPELLRYYTSAISDEMDTLKD\YCTRM KENQKHYYITGETKIDQVANSSLCGT FRKHGLAEVIYMIPIDEYCVQQLKEFEG KTLVSVTKEGLAELPEDVEEKKKQEEKK TKFENLCKIMKDIK\EKKVEKVVSNNR/L VTSPCCIVTSTY\GWTANMERIHGKLQ ALKETTSTMGFTWQPKKHLEINPDHSIE TLRQKAEADKNDKSVEGILVILLYETAL LSSGFSLEDPQTHANRIYRMIKLGLGIDE DDPTADDTSAAVTEEMPPLGDDDDTSR MEEVD
6510	14561	A	7241	158	405	RMNLSDSGMDDIISQESSLDMEGNYKK AQKNEREAIRLILAL*SFDDGSRIVIS/CE QSGKQIFSPH**GINFQIGLSSTWSP

6511	14562	A	7242	3	442	TLLMFNNNVSLTLTFCMFLEFSLPCTED VPTCGDSCDKVLECGIHRCSQRCHRGPC T*VIYFHAVFQAGPECLHCEEGCSKSRPL GCLHPCILRCHPGECPPCVQMLGTAESA VLPQACHCPQFCLQSPFFLTHKEPQSSW SSG
6512	14563	A	7243	2	322	SGWSLTEQDPYNNIVRTAIEAMAAVFGG TQSLHTNSFDEALGLS\TVKSSLIPFSLHF LFS*QFSLSYISIFLFIFFYFYLSLLIHFFY IFYLISIFLFFFLFIY
6513	14564	A	7244	1	361	RELLAFWQNFKLRPQGPFPS\PGPGGEKK R*SLPKTPPKGGPPGP/SPNGRLPSGGQLP PPRGG/SPQSSSLPKGPQGWGPPFP*RSP PCPPHRIGVPQVSSSPTPGLVFPRGPLNPG NLGG
6514	14565	A	7245	115	313	LVRSLTSLPHSPNP\TSLPS*LPPYGPVY LSHYPPSPITSLTHPPSPSP\TSLPPPSP TPTS
6515	14566	A	7246	2	326	NEGECRKDVEMEPVLQAEKTNFQNHKG HEFIPTL\WHFPANCDACAKPLWHVIKPP PALECRCHVKCHRDHLDYTD\DLIFPCN IRYDVSSTLRY*LLHFSDEITII
6516	14567	A	7247	1	364	EHTRAEDHMLEEREER*RAERAQREE*L PEYQERMKTL*EADRNIRPRELEIEERER\ RTEERILGDSSLSRKDSRWGDRDSEGA WRTGPEAHSEWTIGSPQMEWRP*EWLY DDRSYTG
6517	14568	A	7248	86	512	RGRVEAAPGYGSHLCHN\FLPCTYWQKF GQPPGLQRTAASYSSDTMLG\TKAETHPT FAFFPAQGPCKCESWQSRDTSARSETLGT ACSYNTGNNWAGAAAHGDTEDLQWLQ RKRE/RSEKTRTDLKGVRTSNGTARDD NCAYSP
6518	14569	A	7249	2	703	PDCPSRPT/YARGTSPGNK\TENAHKGPKS VSSAPKMR*SLQDTG/REDTREPVR\FTD TG\TKEQTVIFAD*KIAGRCKT*GQFPRQR PPHGGGSTPQLFSA\IGTSFPA\RPVAVKV HGFKTSPTGRGGGH\WANTR\SFSWLATK KRESERKTRTDLKGVRTSNGTARDDNC AYSPHRRERGAPPAHGLYRRSVCARKN HIVLSKTGGRSVRRHDHRRSR\SWRLRPG VSHHMRRSQ
6519	14570	A	725	68	362	SLPTIRECIYIHVVHAGDHIGNACWELYC L*HGIHPDGHMPRDLTIGGGEDSFNTFFT ETGASEPV\RAAFADLEPTVIDE\GTVTY GQYLQL*QLIK
6520	14571	A	7250	148	357	LGIDLTKKVKKLSKKNYK\TLMKKIEDDS N*KDNSCL*IR\MTILPKAIYRFNTISVNIP MRFLPD\AWADAW
6521	14572	A	7251	1	389	RGAQAIIVF/NLNDVASLEHPSKW\LADA LKENDLPSVLLFLTRAQYALMEKD\ALQ VAQEMKAEYWAVSSLTGENVREFFFRV AALTFEANVLAELEKSGARRIGDVVRIN SDDSNLYLTASKKKPTCCP
6522	14573	A	7252	1	144	
6523	14574	A	7253	174	809	DQRGGNWAYECQWEGPCRLTHPLLSTS HGRQWLADALKENDPSSVLLFLVGSKK DLSVSVPVGGLPSLVRECPLT\AFPQTP AQYALMEKD\ALQVAQEMKAEYWAVSS LTG/EVGGFRALL*HSC\ALLSLLHLQLC PVSPDPALPLSTYLLSVGENVREFFFRV AALTFEANVLAELEKSGARRIGDVVRIN SDDSNLYLTASKKKPTCC
6524	14575	A	7254	1	524	MERFEVLGIPFSLQLWDTAGQERFKCIAS TYRGAQAIIVFNLNDVASLEHTKQGV AECLKEE*PSRVVLFLLGFKKDLSTPAQ\ YALMEKDAFPGPRRLKAEYWAVSSLT GENVREFFFRVAALTFEANVLAELEKIG GLENVCMFV\BPSDDSNLYLTASKK

						GLDVIGMFVRINSDDSNLYLTASKEEAP HVCP
6525	14576	A	7255	1	258	
6526	14577	A	7256	2	562	RCFARYRPVHADPLYCQGHAAVPGYST VSRTHAPGG/VQLPPPPYTA/GRGAQVG RGCSPARSGAWPHRSGAVDHPLTQGDH TAPDHSSGLNDHSHHGAGARHLPPQG HAAWPP*DLNPCRTQPS*PSHSRPGSPL APVAPPWALGWNQYFPKSDSLLLLAK LYLIQWVFPCTVDFPNVINFIK
6527	14578	C	7257	30	323	MRLQLPSTSHLPVKRGXKEGEAVVLPEV EPGLTAREQEATPRPRETTQLPTTHQALG WNQYFPKSDSLLLLAKLYLIQWVFPCT VDFPNVINFIK*
6528	14579	B	7258	249	374	RLRWPLREVGQSVQDQRCTTKPREVSGI RYCDFLPGVYDCT*
6529	14580	B	7259	77	867	XAGALQDITLSQQTSTWKTQLLTAIPT SPEPTGLEATAASTSTLPAGEGPKGEAV VLPEVEPGLTAREQEATPRPRETTQLPTT HQASTTTATTAEQEPATSHPHRDMQPGH HETSTPAGPSQADLHTPHTEDGGPSATE RAAEDGASSQLPAAEGSGEQDFTFETSG ENTAVVAVEPDRRNQSPVDQGATGASQ GLLDRKEVLGGVIAAGGLVGLIFAVCLVG FMLYRMKKKDEGSYSLEEPKQANGGAY QKPTKQEEFYA*
6530	14581	A	726	1	1254	
6531	14582	A	7260	93	1049	TSGSHSGITQFLPCFSGAQPTGQSPV*KRP SPGPQHRAARCTHFPEGSPFFGSSCSRPR NRAWVSAWWAGS*RPAQWSQELTQTP KQAGGQWRGPAPSRTPMPRRLEPPQHP KEQERHGVALEQSR/PRTLPPALGHCTCV* DQPSAFPVPAQPWGNPSMGS/HERSWV CHVL*LSSHPLIQRRGSPCPPVGLGISP SPCPGGQPRQPDASSLLGA*ASGFSGTPK FKGPGTHHGPCQPLPSPAGLGSGLGEDL EAVGRTQPSNA/PLAPGQ*ATGGSALQPP VHTASNAPGPVSPDAPPPLPDQAQRLQD QAKAKPCPR
6532	14583	A	7261	2	643	PRVRLNGIVDR*VLGCLPCYDLGIFTDRD LGVHADAHDLVENLAKDLIA**IPFLAEGI RIHGDKVTVALRPFHERMEACFKQLKE MVENEYGVRIIMPSSLD*RGIRPRSMVR AFTMPSSSRPLSVASVSSLDSTPSRPGS DGFALPELLPKMLSRSHDKLYKDDLD DKKDYMTYNWTCRQFQISRDKMKRTD VSLYIMLVSPNPNSY
6533	14584	A	7262	59	339	
6534	14585	A	7263	2	519	ILFLFLFYFISFLRWSFTFVAQAGVQW*D LDSLQSPPPRFK*LACLSLLSSWDYRHMP PRPANFLYF**RWGFTMLARLVLDSPQ/ CDPPASASQSVGITGMSHAGPTMKLLN PQSEVIFSPRNHSTLLTPLSRHLPHPISIS TWCIHYAPLHTVSISAEAPWLFACPOS
6535	14586	A	7265	3	317	EESFTAHLRHRGVQFPFCGQCDKAYG TQRDLKEHQVVHSGARPFACDQCGKAF ARRPSRLHRMTHQ\GQLPMLAHALCG AAPGSQGFLWNHMLHT*KKPFL
6536	14587	A	7266	285	672	PLCTREKSEYMCTSYSLARSRVGQTLCK GVQWRHLSSL*PPPGFKQF/SCLSLPSR WDYRCPPPHLANFFYF*QRQGFTILARL ALNS*PRDPPASASQIAGITGVSHRDLII NFLDFEGYT*SATDS

6537	14588	A	7267	3	231	QIEQLHRRF*AA*/RGDQPTIRKENFNNV PDLELNPIRSKIVRAFFDNRNLRKGPRGL ADEINYEDFLTIMFYFLSI
6538	14589	A	7268	88	360	KINMGILLKLVYRFSIHPVKTPAGLF/TK NEQ**TEFDKRILKSIWKCKE/PYSTRTMF KKTEAKGLPS/P/DFKTYEATEFEKTS*D QQKDRYKE
6539	14590	A	7269	2	355	RRLFFFFFFLRRSL/DSVAQVGQVWHNIG SLQAPPPGFTPFSCSLSPSS*DHRPPPCP ANFLYF**RQGLTMLAKLVSTS*PCDLPA PAHQSAGITDMSHRARLIVSLFKRQKTY GNN
6540	14591	A	727	65	1552	PLKAKMGKEKTHINIVVIGHVDNGQVSP LLGHLIYKC\GGNDKRTIEKFEK\EAEM GKGSFKYA*VLDKLAER\ERGITTDISL WKFET\SKYYVTYPFDAP\GHQRLLSKN MIYRGHLKA*PGLGGPLFGGVLP*LFAA GVWWNLKAGISKNG\Q\TREHALLGLHT WVWKQTKLFGVNKNWIST*GHPTAQKK ILKEIVKGKSALTLRKIGYNPDTSSILCPIS GWNGDNNAWSPNA\NMPWFQGDGKVT RKDGNASGTTLEALDCILPPTRPDKPL GLPLQDVYKIGGIGTVPVGRVETGVLPK GMVVTFGPVNVTTEVKSVMHHEALGE ALPGDNVGFNVKNVSVKDVRGNVAG DSKNDPPMEAAGFPAQVILNHPGQISAG YAPVLDCHTAHIACKFAELKEKIDRRSG KKLEDGPKFLKSGDAAIVDMVPGKPMC VESFSDYPPLGCFAVRDMRQTVAVGVK AVDKKAAGAGKVTKSAQKAQKAK
6541	14592	A	7270	1	336	RGDTGRTLAQRGARSSG/LPTV/LNPGRO LTSAG*PH*YGKARAAMPTPSLVRPVLK VGHSPSEVSGSAAEIAPWTISSPLYNPSS LPGPASSPMPIPNSSPLASPVSYTVLV
6542	14593	A	7271	1	371	RSRPELNDYKDKKAATKNVQKK*MQRQ KG/DIAIDATETQRIIRDCYEHYNKMSSSS SSSSSSSSSS/PSSSSSSSSSS/PSSSSSS SSSQSLPSKKNSGSEGFTAIFYQRYKTPL ILKLKK
6543	14594	A	7272	2	406	ARAARVFLHRTSLNLSNGGTQC*KTMV VHDDEYSEPCMTSPSKEGLIVRQTQSAS STLQKHKSSSFTPFIDPRLLQISPSSGTTV TSVVGISCNWMRP*SNKHYPQKGSLSF* ISTHTYTPQSAFCVIFLHYC
6544	14595	A	7273	1	165	GSLPLLFNILEVLAKAIRQEKSQNEKE KV*LSLLTDHMI/YM*NPTVKKLT*KL T
6545	14596	A	7274	110	409	
6546	14597	A	7275	53	930	ARSYRQLTMEANGLGLQRIHTDYPHPH LIARPQGFPELKNDTFLRAAWGEETDYT PVWCMRQAGRYLPEVRETRSAQDFFST CRSPEACCELTLQALRRFPLDAAIIFSDIL VVPQMFSPPPALGMAEVTMVPGKGPSFP EPLREEQDLERLRDPEV\VASELGYVFQ AITLTRQRLAGRPV\LG\FAGAPWTLMT YMVEGGGSSTMAQAKRWLYQRPQASH QLLRILTDALVPYLVGQVVAGAQLQLF ESHAGHLGPQFFNKFALPYIRDVAKQVK ARL\REAGLAPVPM
6547	14598	A	7276	86	552	KQPQPTAPLWQPLKLSSKLGAPGHGPC CLHLLSALGSLPGLVPWLPSRVGC/SS*G LLLTSPQPSADPGQRRVALHHVL*VEP FASQEAQPPSLP/WW/PLRGDTESQGPS PLSARCTHPGCRSVRGRWGRARGWPAR CQGAGGPGGWRTTCPCR

6548	14599	A	7277	176	779	NSVSKLGLAPGHGALLPPPAERSREASQI PRGRAPGVHYLCLKQPRRGLLPQGNE RPLPSKPHLCAGLCLGGPGPTSPLPFETIR NWARRPPEA*PQGACI/LLSLGDPRGVG *PWV*TPGGLVFWMSLWHFGPQLKPPPL PRSLRPRPSDLLGRKRHQGQDEKPGGA APQMRAL*PVLPLPPHPTAPQLVTATR KP
6549	14600	A	7278	32	492	FALVGQAGTQ*CDLGSVQPPPLGFK*FSC LSLLSS*DYRHVPPCWLIFVFLVE/QGFVI LAKLVSNP*PQ/CDPPILASQ/SAGITGVS HCAW/L*LSFSFFC*DRVSVTQAGMQWH DLSSLQPLPLGFN*FSCLSLPSSWDYRCV PPHPANFFIFSR
6550	14601	A	7279	19	253	LENSFLKTLPLAIACRNIKYMNLTKCESC KLREIKDLNKWGSTPCSTIGKLRIVKMS FLPKLIYKSQKTFFLQTLIK
6551	14602	A	728	344	803	KRDPSSLAYPFFKCNLLSTLHFMTAYAS LYFIYTEPVFVQHDWLHASKAL*IPFHISPS TTIPLTMVSQPYTEHYIVTKLGEFQVSK GNYIHKRFCFIAQFTI*LVITQPTMLR*ISD YLDKYIGFCPPQPMKQERHTYSPPYQGC VYSVVQS
6552	14603	A	7280	3	1023	FLNWKSKILYSTDDMIYIENAKESRKKL LE*VN*SKLLDTRSMYKSNFLYTSNNL GKPAF*KPYPLAJACRNIKYMNLTKCES CKLREIKDLNKWGSTPCSTIGKLRIVKM SFLPKLIYKSQKTFFLADIDKSCFF*DSFT PGLPRLEWPWPRSQAHA*KPSNLPSSNSP GLSLPSSWDSTSACHRRLANFFVFLVEM W*CMPTVPTTWEAKERAHLSPDVRGYIS CDCATTLPQGQNEISASNKTIVINIVSY WCKVIHTRKWCEQTTMSLRVFTNL* RLGHWESRVSTNRTEPTNHTDKKVNLD PYHIWYTKMNSKWITDLNVKGKTIKVP
6553	14604	A	7281	1	407	DVCKPDLTVGLRYAPHQYKSVVATNLP EAKYWFLNWIADLSKAAPRNDALGTS AQAYYGYRKQEQILL*EEDALTGTNESL ERQMREMEENFAVEAANYQDTIGRLQD EIHNMKEEMARHLREYQDLLNVKMGF
6554	14605	A	7282	1	3003	MNIDAKIHNIKILANRIQQHIKKLIHHDQV GFIPGMQGWFNSTSKSINVIOHINRTNDK NHMIISINAEKTFDKTQQPFMLKTLNKL IDGTYLKIIIRAIYDKPTANIPNGQKLEAF PLKTGTROGCPLSSLLFNIVLEVLAIR QEKEIKGIQLGKEEVKLSLFADDMIVYLE KPIISAQNLKLTNSNFSKVSQYKINVQKS QAFLYTNKRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKKIYQSLN
6555	14606	A	7283	2	178	PRVRWN/RKVQKQIISIHYGQ*IVDKGSR TIQ*RKNSVFN**C*DK*IFTCKRMNLYL YFVSSSSSSSSSSSSSSSSSSSSSL*EENTGI NLHDLGFGNGFLDPAKQATTA*LYL YF

6556	14607	A	7284	699	2526	MQYNIFQVLYLDELHGILGNLTNKFH RSIVANNLDDLDEKTHQLTKLAQKEIKN PNRPVTSKEIEPVIKNLPVTKESPGLNEFT GQ/YYGQTY*RKELTLILLELSQKMEEKG /V/IPVTFYKADITLTPKPKDLTG\NYRPI SLMNIDAKKLKILAGQIQQLIKMITQHD\ QVRFIKEMQGWFWHIQMSIDVIIYHINRM KGKKVHMITSIDKKKHLTKIQHPFMVKT CKLGRKGNFLNLIKTSIKTHS*QHNSKTL KIFPLIS*KFLISPLLFIILEGLARAIRQEK EIK*IQIGRSKTTFAENMVLVIKNPKEST K*FRLI*KFSNVAGCKINTQSKKNLRG N*/RQF/PFTIT*KRIKYLEINLTKKVQDLD TEKYKTLLEIKEDLNKWK/NILCWQVG RLNIVKMALLPKLVYRFNTIPIKIPVT/LF TETEKLTLEFIWGLQV/N*RYSSLFKTILN KNKVEGLTFSNFKIYCKATSIKTVLCWY KNI*SNRVEWKVQKQITPIHLWSIDFWP RGSRTIQ*RKNSVFN**C*DK*IFTCKRM NLVLYFIPYIKUNSR*IKDPKCKSVNPIKL *EENTGINLHDLGFGNGFLDMPAKAQAT TAKKKKK
6557	14608	A	7285	2	577	KKIKNIKGSIQQEGLTVVNMYAPNDKPS TYMKQKLT*LKGEDNSTLIVGVFNITISV VDRT/SQYLSKEI*DFHNTINQLDLTTIYR TLYPTMKYTFSSIHRSKIGHKLSLN*F *KTA\NIFPDHNGMNLVIIPKKKTGKFKN HRN*HTLNH*IKKETTRHWLKITPRLWP WQVRVFGAQSLOQPQLTAR
6558	14609	A	7286	17	377	QRKACAPRAWSGDPSACRPSVRS*GSTT *G/KPVNFDDYGDIIYIPAVNLKTFRELA ESLLTFQAYDQILGITCEYLPWRRSGGLS PHMLSLIYWPMVRLWGGRGDVYPSCYC CHMALYGM
6559	14610	A	7287	1	893	SISSQQT*SSWAPCYRSLPASTWASSLCS SSSLSISFSFSSVYSSPPGSSTPLASISAFF *PLDFSSLASVSSLLPSLNLTFSWLPPAS PLSSLAFPASTLVSGLPASSLMSSLPPTS ACLSPTSQHACSS/STLSQSLPSTSCCLS LQTP*TLPDWGFRSQKGT*VAS*ALRKTS SPFSSSTSGLGAESREQQLGAKTNCASS RDRSSRCGSTENSST*GPTPRSSSR*PIPGS SSPGEKAAPAASAWAASPSSAPTHSGYE LLESSRKEKESCTSWDESSRAGAKSSGP ES
6560	14611	A	7288	827	1393	ARCRQAREDGRLVQRLCRRGHFVPLQH RRGAQERAPGIAHSSCAAEPRLSLRTDI SSALVWPRASCARSCPEMGPPLNKWAS GA*TLEECPPLSGSPRKNLD*PPGLEEPS RLEGGTPSSALLKG/PAPTYLPPYALDL PKPTSA/VQHSPSTYPHVLPIPTPSSWR VVAVGALCSRQDNLDHQPRL
6561	14612	A	7289	104	464	
6562	14613	A	729	209	372	KRKKILRINKTKS*FFEKINKIYKMLTHL RRDKRQKKSEIKKGDIITDTTEMKK
6563	14614	A	7290	2	394	PRVRNHPIQKWAKKGLDSHLSKEGPQ/A AISHMKRCPASPATRE/VQIRATGETHLR GCGNIGTLTRC*WGCK/LLQPLWKPWW WFLRSLSIGLRCD/PVATPLLSV/WPQAC KPGTQRDLHTTVFTAALFTVAEQ
6564	14615	A	7291	2	344	DTRTHVAEEDKLAIIVEPEKRGKYVVWF DPLDGSSNIDCLVSVATIFGFYITNSSD*P SFNHALST*RNLYLVSLPFHLAFLSTFHL SFLFFLSFLSLFSYLFFLSSFFSS
6565	14616	A	7292	1	348	RYRSGIPGRRTRAGETPSLLKIQQPG/GD GARS*SRLRLRQENRLNPEGRGCSEL RLCHCTPAWARE*DSLSKKKKKEFKIPIY FLTLLWDVVRTQYYSIPMCLLCGEMVT

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6566	14617	A	7293	10	436	EYYRFLEAKENRTATY*NL/MDHAAKAE LRGKFISYIAYIKKLEKFQIKNLTMQSKK LEKF*IKSSNVFQARKEQTKPQISQRK *ISEKE*TKLRLNQCHKSLKQPLLS*TK KDQNK*MRKEKGDIKLSGRVGRPEYLQ T
6567	14618	A	7294	2	403	CPTSTSTSWTMWGPACREHL*PLPTFP GQQPNTLP/RPTLRP/SP*TPTSACS/RP*/P AVPSRPSHPSHLPSPCPQFTFNPHL**G GPHPTHNLPPNCPALLQLPGFSTLPRLS P*TPPPTPPICHCVSRFLAP
6568	14619	A	7295	27	88	CREEDDDLVESEDS*QWGESLKRVSFTL LDDEATEDAGDLNVKKNSEVKSFETR QEKESA*VGRKMMTWLKVKTVNNGEK A
6569	14620	A	7296	109	409	KFKNMWKLNDTL/LNNHVVKEEIKKEIR KYLKRNNENKNTTYQNL*DSAKPVLREFV VINAYIKIEEGSYISNLTLYLKDELEIKA KVNRRKDIRITEIN
6570	14621	A	7297	13	811	VCRRWSGGLARRFGSGCCSSCPQRR ARRSQVQNGKYL/FDQINRSLENYEPCSS QNCSCYHGVIEEDLTPFRGGISRKMMAE VVRRLGTHYQITKNRLYRENDCMFSPR CSGVEHFILEVIGRLPDMEMVINVRDYP QVP*MDGACHPS/PSPSVRHQS/DHIMY PAWTFWE/WGTCCLANLSYRSWTEGPL QRRSGKVSTQWPWKKNSTAYFRGSR TSPERDPLILLSRKNPKLVDAEYTKNQA WKSMDTLGKPAAKDVHLVDH
6571	14622	A	7298	22	426	IFSHYFFQKFLRFPFIMFIMHLLGCKVDL FIFQCFHLVFYFGLFYLLKFCYTFKFT NCFLYSFSFTVHLI*YIFPSDIMFLYVEV* FKSFF*RYLPLCHVHAFISFLNILSFLSS* **LTIFYCPYLLFYH
6572	14623	A	7299	131	353	IFLPEKKLYKLEKWDRAFDNT*NF*T*K/I HTGEKS*KCKKWDRAFGWPHFIIGKIV HTEKNFYKGEQCGKTFN
6573	14624	A	73	702	1281	AVEMYLVVCGTVAISRVRMSAVCVLRT WSRNAGQLICFTVFQPCSNVHVL/KGP NYVCFFGYPSFKYSHPHNFVKTNAVC GQVLVQFRFPDTEEGIRKVTV/KCYVKEG DTVSQFDNIGKVQSDKASVTNAPYDGV I/RKL*HSLDDIAYVGKPLVNIETEALGT VNLFYQIDYCPPFVIGSQLKVTFFKKK
6574	14625	A	730	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGT AQLSELHCDKLHVDPENFKLLGNVLVT LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
6575	14626	A	7300	131	418	IILTEKKLYKLEK/CGQGF*QHLKLLNIKN HTGEKS*KCKKWDRAFGWPHFIIGKIV HTEKNFYKGEQGGKTFNEGSHLIAQESI YT*KKLSKYKD
6576	14627	A	7301	305	326	KTFRSQKKK*IHWDYIKILNFCARKNTIS KVKRQPT*EKIFANHISA*G
6577	14628	A	7302	3	416	FLR*IGSHSVTQAGVLWRDFGSLQPLPPG LKLFSCLSFSS*DYRRVPPCLAKFCIFS/ VRRGFAMLARLVLS*L*VVCPPCHVD LYN*SASQSAGIKGVSHHTWPHKYHLK NLNVFSYQSKSTVNNQLSSQILLN
6578	14629	A	7303	3	474	

6579	14630	A	7304	2	1050	REDTKAAVLLHLLHNVRPQDQTVVVFV ATKHHAEYLTELLTTQRVSCAHIYSALD PTARKINLAKFTLGKCSLIVTDLAARGL DIPLLDNVINYSPPAKGLFLHRVGRVA RAGRSQTAYSLVAPDEIPYMQDLHLFLG PLPHRPTPQALRVWAGVDGHAGVGV PQSVVDEEDSGLQSTLEASLELRGLARV ADNAQQQYVRSRPAPSPESIKRAKEMDL VGLGLHPLFSSRFEEELQLLDLVNSIKN YRSRATIFEINASSRDLCSQVMRAKRQK DRKAIARFQQGQQGRQEQEGPVGPAPS RPALQEKQPEKEEEEEAGEKCEDIFSEVG GRKRQRSGPNR
6580	14631	A	7305	3	872	PKSWNGPPHPPGHRHSRSHSNFSGCSVD EERSRTSKDSSSPVNDHRGRQ*MR*KNP FAASSRSTSSSSSSSPPLWSTAGRTPT TRSGPSPALDKVQIYMEHLLATAST/EPA GSAHVPGHFRAE*VLPAL*GRALLGTP VTNNLLGEIAKPSLSQSKRLKAAS/AAKY PHDVVNHLSCDEARNHYGRRGQPHPPH PRTK*KNGSFTPRSCRARCCST*VSPRRT RRAPGDPLVLRP*GPSGPLNTSVDSQ KPASNPGDVQNHPPGGLLVGNCNSEPGA PSAESFAV
6581	14632	A	7306	99	433	KLKVKGGKRYRMLTLIKRK*H*IKIQNSC VFLYTSN*ELENK/IFGRYVSFMA*KIKS/ LGILMKDV*NLHSEDYERLLTKIKDDSN KWTDMQFTRIR*YHKMLILK*PIIY
6582	14633	A	7307	18	146	LHDSNTRSPQFQKSLGFSTGRHRCPV*EG L/RSVTQAGVQWPIHSSLQPRPPGLQSDP PASACQAARTLCRWY
6583	14634	A	7308	1	240	LVCLSKSECLQPLFYHHLTLKNCQFHLC RILLHPQC*KQALRHGKACPLCHCCSHA ALYMICLAKED*KTFDPQELMYSL
6584	14635	A	7309	2	1790	ANQLQGEQVRRFFVDCRPAEQYGAGHL STAFHLDSDLMLQNPFSEF/DTAIL*SLLEA QKQSIESGSIAGGEHLCFMGSGREEEDM YMNMLVAHFLQKNTEYVSIASSGFMAL QHHLADINVDGPENGYGHWIASTSRSR SINSVDGESP/KWLCKLRWILKHQV
6585	14636	A	731	99	641	APSPDAMGHFTEEDKATITSLWGKVNVE DAGGETLGRLLVVYPWTQRFDSFGNLS SASAIMG/NTPKVKAHGKKVLTSLGDAI KHLDDLKGTFAQLSELHCDKLHVDPENF KLLGNVLVTVLAHFHFK\FTPEVQASW QKMAEDVTGVASALASTYPLSSLAHDS ELSRDRLLFCKQIKI
6586	14637	A	7310	1	1424	ARILLDNHYAMEKLKKRVLEYLAVRQ LKNNLKGPILCFVGGPGVGTSGRSVA KTLGREFHRIALGGVCDQSDIRGHRRTY VGSMPGRIINGLKTGVNNPVFLDEV DKLGKSLQGDPAALL*/EVLDPQNH FTDHYLNVAFDLSQVLFATANTLATIP AALLDRMEIQVPGYTQEEKIEIAHRHLIP KQLEQHGLTPQIQIPQVITTF*WITRYTRE AGVRS�DRNLGPLCRAVAVKVA*GQRT EPIWTVLM*LREKVAENTS*KMKNLNL /RDTTDLALPPEMPILIDFHAKDILGPPM YEMEVSQRLSQPGVAIGLAWTPLGGEIF VEASRLDGEGQLTLGPSSGTMKESAH LAISWLRKQRKESTKLTNAFGSFDLLDN TDIHLHFPAVATKDGPSCEWVTISNLSR PQLFSGRLVRSDVAMTGEITLRLGLALPV GGIKDKVLAHRAGLKQVVIIPR
6587	14638	B	7311	169	379	VSQRLSQPGVAIGLAWTPLGGEIMFVEA SRMDGEGQLTLTGQLGDMKESAHLAI QLGSAATQRSTQLTNX*

6588	14639	A	7312	3	411	HHFLTCRIKKNKINYTIATKTKYLRLNLRN F*SLTKPKLLKDIKVDLNKWKNISSWL R*FKLTNISVLPILYVKNKIPJ*KINTFFIKLD KLMPKFI*KNKHVKIGRK/ITKKKSYKGI LTLSDIKTYVKVSIHKT
6589	14640	A	7313	2	423	SFPLPFPLPPCSSPQGPQLLRKAITRPWPG TCPYPASTQVGEFTLRTRPQLSVGV*EEG CPYPSPADSPMSDPGAAPPHHPRSPL*R NR/C/SSKGTAVFAWPAASHLASPLQPTG LPGKRNNMLSVPNNTPOPDWVAPE
6590	14641	A	7314	2	416	ILSTLFQICHCLWSSQLLLTSHCQYHYCC SSKNKNLAWLLKFLYNLEA*FIHLA VIFLYLSCLGFTALYEFVVCFLLLVLRSY SVLLFLSF/LFWNFSITHILELLCPICLLN VLLFMYFSFVLQFGYFLFLCLO
6591	14642	A	7315	2	411	RQGLTLSHGPEVQWHDLSVLQPLPPGLK KIFPPSASRVAGNTDVHHHAWLVFFPFF VRRGFAIVAQAVLQNPGLQAICPPMASP KCWDYRRGPPHPAQE*EHFLRSLPSTGE SYFGEL*HISTRKIKILVHFEETN
6592	14643	A	7316	2	333	TEPALSPRLECSGTISAHCKLR/LPGFMLF SCLSLPSSWDYRRPPHPAGFFVLSRRT GFHC/RLARDGLDLTS*SARLGFPKCWA DYRRDDPMPGPVSFNRMENLMETVD
6593	14644	A	7317	3	232	AASTPRPLRFLPSPTRGLVPN*RPRRRT SSAANTPAPEAPTSARPTRSNTHRLSP WSSRPVTEEMQSAAKHNG
6594	14645	A	7318	1	385	IPWSRVG*NHPVKNAHLPKAVSKFKTISI KKPPLFFPRMEKTILKFLWDSSSSSSSLPV *SSSSSSSSSSSSVSSSSSSSSSSSSSSSS SSSSSSSSSSSSSPHKKIPNTYRQLIFD KANKN
6595	14646	A	7319	2	409	DRKEERLRSRSGAAATMSSGGKGVAE WDPLPCLDPELWDQFDNLENHLSLEKFII SAKERTIELSYTKQLRNLLKTCQPKRN WKEKEYIT*NSPSLPVNKMSDHARQH*V IFFEVLNFQITVELQGHVQNKQKE
6596	14647	A	732	154	411	AGQPGPEGIQLG*PQIRDKGDQMGPHP W*VCGTLTPNTSF*VFCCVAGRDGAPGV KAHFPAQKPWDGGFGP*SAVGPPPI PR
6597	14648	A	7320	58	501	DPRVRPGTRGPRSGTAGGETTWEGPFGV IVRVLMFLSYELRAAELGEVGAGGPRGA RRPSQTETAA*PASRFVRGLGPQTLRPTS PGPRRSRPLLGDPEPPRRRVGGASFPTRN GSGAWALWRRPCWECSSRSFLRTTKLF LFFGFG

6598	14649	A	7321	381	2378	AASMEHIQGAWKTISNGFGFKDAVFDGS SCISPTIVQQFGYQRRASDDGKLTDPF*T SNTIRVFLPNKQRTVVNVNRNGMSLHDCL MKALKVRGLQPECCAVFRLLEHKGKK ARLDWNTDAASLIGEELQVDFLDHVPLT THNFARKTFLKLAFCDICQKFLNGFRC QTCGYKFHEHCSTKVPTMCVDWSNIRQ LLFPNSTIGDSGVPALPSLTMRMRRESV SRMPVSSQHRYSTPHAFTFNTSSPSSEGS LSQRQRSTSTPNVHMOVSTTLPVDSRMIE DAIRSHSESASPSALSSSPNNLSPTGWSQ PKTPVPAQRERAPVSGTQEKNKIRPRGQ RDSYYWAEIEASEVMLSTRIGSGSVFGT VYKKGWHVNVAVKILKVVDPTPEQFQ AFRNEVAVLRKTRHVNILLFMGYMTKD NLAIVTQWCEGSSLYKHLHVQETKFQM FQLNDIARQTAQGM DY LHAKNIIHRDMK SNNIFLHEGLTS*KFGDFGFATVKISRWS GSQQVEQPTGSLV\WMAPEVIR\MQDNN PFSFQSDVYSYGHRCMELDGRGELPYS SH\TNNRGFRSIFHGWGRGY\ASPDLSKL YK\NCPK\AMKRLVADCVKVK\VERPLF PQILA\SIELLQHSLPKINRSASEPSL\HRA AHTEDINACTLTASSPRLAGLPS
6599	14650	A	7322	3	419	EPQWIQALMPEKEPARQSRGGALRTDSS EPSRNEVKKTISFIILAKRTYLEIYATQDA *NLCTEKYKIFLKGIKEYRTKWKDILQS WITRHNVKMAKLP/KFIYSFTICIKMPALS FYKLILIFMRKYKGCRIANTI*RER
6600	14651	A	7323	3	222	DAWVTSTNADKEFEKIQHPLMIKLSK* VYNMSYIYPLFKIIGIYDKSLVNIILNVE KLKAFFLRTGTRER
6601	14652	A	7324	2	395	GRQPRWRLWGQLLSSGRRPLEPGWHRP SRGERGHHASFPEPGPCPGPQQRPOPG*V PVPEP\PPKGGPEPRSSGRKASGPSAQPPP AGDGARERRQSQQLPEEDCMQLNPSFK GIAFNSSLAIDICMSKRL
6602	14653	A	7325	63	451	KNQEQESEETLPNLFYKASITLIPKLDTQ K*KKRKEKKRKKKK\EN*KPITHRNIYAK ILNKILAHQIQYIGKJIIHDQVGCIP/GAF DKIQYRCMIR/TLQKMGIEGTHLNIKAIY IRPTDSIENREKP
6603	14654	A	7326	2	137	SKAKINGWDYI*LKCWYTAKKAISGVKR QPTWE/EKIFAN*SSDRR
6604	14655	A	7327	755	1287	GGWDFAPAEGRERLAPCQIWDPSCLPTH W*PLSGLLSRPPPGTQSPQLSPYSCAKSW CPCPSLSPGSPMN*PSVPRTTGPSHPEPSA HGSHTSPIVATTERAPERISGGDSLGLSPS GLEGVNREPLFT\PPSSSGSSVSLMSSTP\P PAGHSAA*SPQPGRCSGPAQQQATSRSV RGP

6605	14656	A	7328	1	2239	MEERKGHKEIHLRRLKVRILSVRMSAIK ESPRLIGNQEPLKQLKQESKMNRVYFN TDYSGCIRLIQSRLSHFPSSGQONPKPY MRKFKTPLMIAEEKYRQQKEEIEKQKQE SSYYNIVKTQSQNHTEVEKEMPLQKT NEEVSLSGIDSECTVVQSPGQSQSNARIL GVCSDNQLSTTSPETVAAKRLHHVLAAS EDKDKMKKEVLQSSRDIMQSKSACEIKQ SHQECSTQQTQKKYLEQLHLPQSKPISP NFKQSEIDVQITFKKQYLKTKKTEASTE CSHKQSLAERHYQLPKKEKRVTVQLPTE SIQKNQEDKLMVPRKQREFSGSDRGKL PGSEKNQGPSMIGRKEERLITERKHEHL KNKSAPKVVKQKVIDAHLDSQTQNFQQ TQWQTAESKAHEHKLPPYNSLQEEKC LEVKGIEKQVFSNTKDSKQEITQNSFF SSVKESQRDDGKGALNIVEFLRKREELQ QILSRVKQFEAPNKSGLKTFQTLNTIP GWLISEDKREYAVHIAMENNLEKVKEEI THIKTQAEMLVSYENIQTAMMSSKTG KPANGA/ALVSTKTSKVSNVHVSNNEN SEQKEN*IAKEKTVQHQAHADEATVRS HVKTHQEIKLDDSNIP*PL*KHSPPSPTFI TIESTARRTENPTKNELSQSPKKDSYVEP PPRRPMSQKSEIHRANTSPSPRSRSEQL VRLKDTTAKLSKGAIPCAATVPPIVEKR SEIIMSPATL
6606	14657	C	7329	110	298	MPWISEGRATRCLRVPSARRGDEGLHQ RATANSVYKSRNTWLCWICKPPQSSSPK ISEKRF*
6607	14658	A	733	233	353	STAPGSGRQRTVSEEP*PHSTEDGQRGQ WGGTSLQHPAQD
6608	14659	A	7330	127	742	LVRVFPWREDKVWWHCQE/CRPKR*KS KPGLSGPV/APGHSWDSTETTEATGLLI PGPTRRPPTLYHTPCCLSVPRWCRPSSPL LAEGTRRQGLVALPSLIHQIPMGLEVW GLASPPRIPGRKWHR*KDKMATQALSVC RA*TCILPPSTKTSRPRPHSTPRGPAPTTV QRNSRRVNBKSPESPLPRPGLPVSEPHVA GTRTARDG
6609	14660	A	7331	2	433	FEDIK*VIGKVKKMMSKQRGNNINKGKIK RNQKEIVELKSTVTKIKNLLGGFKNRL*Q TDK*ISYF/EDTTVEISQSGKQSSSRLEGR EQSLKNLWNTIKLTRVYTVGVSEKEKKE QIV*KISAGNFSNLKNNMINIQEAQRTF
6610	14661	A	7332	1	281	PR/PDRDSEAPGADGAGPRGALPVPGGH GQDPAEDGPGVHAGGARDGGDPARGA YPPMPSTRGCRKGSANLP/PVGFQYVH PFF*FPGVTAKIQRMDQVFTLAVRETE ALIPPEVPTRQCPAHEAVGKVHWLICH WFSICPSLFLISRAQYFYP
6611	14662	A	7333	33	427	GSPAPGLPKGWGFRGGPPGPGKFVFFKL PKGGFPGAEIFLGEFFQRGKKGLGPIPPP VFLKTEEGTSL/NSFFKGRVFLVFKPKA GSSSSSSPNYKPIYLNNTDTKFFNNMLA NRI*QCIKEVMQYDRTRG
6612	14663	A	7334	491	731	DRGLCLPTLEVQWAPILGSLQPPPPGFKQ FSCLSLPNSWDYRCMPTCPANFFVFFCIF **SRFHQVGQAGVQLLTSSDL
6613	14664	A	7335	2	575	AGQVGQLGFPGWAGGEGRGRPPLL*LSL PGRQLPREGLTSVSGHPCWP/DSFGLP GVEKPQGNLAGGALLPKLQRQSGPGNH KTLPISRGPADPGAVPVCHSTVGRG*HS LALHTVPPEKFNIYFFTCPENSSFNLSPLP FRSSLEGIQAGVSSAWGHSAGPGLGLS GDGRQRQARRFSLHSCLPCSP

6614	14665	A	7336	19	422	GEKTDKIQHPLMIKTLTNLGIEKAYISIIK VIHNRPMACIINGAKVKAFPVRSERQRC SPSPLLFNIGLKVPVRAIEKEKEMKGI*IG KKEIKLCLSGNDMTLYLKHPKNSTKTIR TDTFSKVAGYKNTDAWV
6615	14666	A	7337	33	193	GNLGETLMDIGLGKEFMTKTSKAQATKP KI/DWDLN*KSFCTDTNIMHMLIYL
6616	14667	A	7338	87	713	DIYYNCFGFASRKTDCLSTRIPCFTERTSS NS*TQNLTAIF*IKYDCATVQACRSRNK WEVRDALNKFSGTNSIFYIIKRFYIYIYIF FFFFFFETESHVAQAGMQWRNLGSLPA PPPGFTFFFCPSLLKWLGPTRRPP/RQTL ANFFVLLVETGFTMLARMVLIS*PRDPP /ASASQSAEITGVSHCTRLKKIRFAKGHV EFFFESHVE
6617	14668	A	7339	2	105	ENGWCWIATYGKRLDSYLSLHARVNS R/WDLDLGTETMEILEENLGEVLLDIGLG /KEFMTKTPKADSTEIKINR*DSYIWKNE NWIPIHYMQELTQEGLGSRN
6618	14669	A	734	1017	1880	TLAKWWTRREQRSQSTQASSYHQWQR VGACGQAARMRSAPAVIPTRPGEFVHQS LESASNSRLQPVTSTGHRSAPEAGLLTG CVLMPGCSASQASMEHLSWSPCPDGFCT YRVLRSCLNCNCRPDGPEKENHGQEP AAVRSQPEGPEGGTRAGRPEPGGGPHLQ EPKASETHNPGIPSREGAAAQGHLOQSG THVRGGKQPSAAGPGRIARVLSGPPGPR ARGRGCADGS*ASPRARSSCRSGGRSRA AAPRRRRGGAGAACARGCAGG*AGS AARGSSGR
6619	14670	A	7340	2	362	STHETFSKIDHMMSTSLSKIETIVLSIPS SSSSSSSSSHSKSNLQNYTNTWK/LNLLQ NDF*VNNEIKMET*KFFEMNDNDTSYQS LWD TAKAVLR*NRKDHKLTT*HLKELQ KHEQTQS
6620	14671	A	7341	58	341	IKKFRWGPKPPLKEPPGV/SPDFPII/NFGN PGPVPGKDFKFPNFSSSPWGGRAPPVVP TTPGG*MGRFP*PPAFGVPRGGDGSPPPG APKEGPLS
6621	14672	A	7342	2	428	FLRRVSLYCQAGVQWPTSUTEPPPPGFK *F/SCLTLPSSWDYRRAPPRPAKFCIF/M* RLYFTILARMVISIS*PCEPPASASQSAGNT GVSHRAGLVFLNKPVTGLGFDSSHHPYH SQISEKDPPISSIFNKKSIHTNLLIPN
6622	14673	A	7343	2	686	PGPPPEVRQHVRVPGTRTGRAAIWPGSFP VGFPPLHRAQGRGQSPFPFPGTKGLGLE WKGCCCHAGAQETGSPLPIMVHFGSWE MVSRGKPSS*QLEA*GRGRAPGLGSKAG PRLHQDTPASQCMWVCLNTPSRQVRVG PDTQGYVCVPLPPQPHAPRMNQGLPPG APPPPPPSLVPKYFPPSQSSWDRKIPRLQ APPCPPRH/GPPS/AVTNALPNGPRLSAEA PWL
6623	14674	A	7344	1	603	SGCSRRCPGPWACWTPQKGRGGRKRR SGLWGLCCWC/RPHSHRRAGCHHQDGE CDRWGLLPDRHSRLWIFLRNYWHQLGG E*KANAGGSDRVYQFWG/AGPPSAAPSG AAYLQHSTLNRGPSREDASFTPVGWGT CTMSTRQRSVPVPTWASAS*R*EATPVT AVTSMMPAGASPRPPTMSSASAAAARTG CTWNGWFWAL

6624	14675	A	7346	19	1562	GRYWRVVDHGRESRVSGPRFRP\SFLAA LPPGRHPWPWDAAGGSPAS*GGAA*S ALGLSQPRPPGASDAAPDSTPAGV*TASS SALIPSRAR*KGSGTLEETKSRRPHSHRS GPVDLSRSSHSDSTPVHGPYFRSAPDP VAPPRPSAGQSQLGGGSSGSPGNSIPCAF VQQ*LERA*RSHS/SPGSEHRR*SGGLR QGVQGIEVFLGHPPGGYSCGPQPOEKS PPPAHPLGVEIWCRLYIGWKSHSPHPA LAEDWQVPVPAAMAVGAPGLRRIQRTS RRWGQCPNEAGHAADPRDSGPPGNYQP VSLHILHMDPGTC*PE*QHPRPPL*MAG KQWPCT*LDKGQSLGLAGSHQHQCQW W*QQLQSHSLCRSPPPR*RASASPC*AS WGRSSAGAAGFRALGR*HLGTSPLGSAG SLPPCTAEPPADASP*LSPTVLAELGSEG ASEECHSCPHGSPQSLSGSHRPAESQYH VER/WKQDMGPISVKSPTPRRGPTSGSGL LRLARSSL
6625	14676	A	7347	473	792	MLARALDARFLRWCRRDQPLVYHSP*PP GASDAAPDSTPAGV*TASSAPAGEKDA NQMEWARR/VPRAPPPGSPGSLIPSRAR *KGSGTLEENKSRPPTQSPFGAG
6626	14677	A	7348	3	411	LCAAVNRALDEGIPLTSALYYATVTLDQ VRNILRSDTDVSMPLVEERHRLYDTG KILLEKFGGCFNLCVRESENSAQKLMHS WAESCPSYRDVTLVEGKRASFYKRTQIL VSYTCIVLEGK*DACLODILSITML
6627	14678	A	7349	2	331	AGGPGLPCVPHLPAGARAWRCQQPPGA ACCPGRRPLP/GKPSPGSSSRQRGQS CRTVSVLPSPSPGC/RGSQVRPDLGPPKA EGCSPWGLRAESCGATGARVRCHRCVV
6628	14679	A	735	1000	1211	VPSTVLDALHILFCLISFLKNKLGWCSGL TPVIPGLWEAEAGLLESQEFGTRLVNM AKPCLY*KYKKLA
6629	14680	A	7350	1	1062	EAGPGGQAARSQRGSSLGLVLPPLRLQR CGAPEGHASPTPAGPGAPNQLAAPWLL WPCA*PPPGLCYPAPPPPPQKHP/GLLPA PRALPSPRELPGEEPSAHPVHQG/PSCRA TRPASASFKSHSGEFRQGLISAAHILQELP GPAGVENFQKVFNGAAGPAARHGPSSRS SC/PCTHGTSGNREKPLSTKSKKNKSA WQATTQAGGPGLPCVPHPAKQVLAHGD ASKPPGAACCPGRRPLP/GKPSPGSSRSS RQRGQSCRTVSVLPSPSPGLPGTKVRPW *GHLASLVWPGPPGKSPGQSTRPVGTLK RGVHPLPQVVGQSRFAILVLFGRQGE RAGMLGTCCLLAKPEVTVA
6630	14681	A	7351	423	826	QKVCALT/CLRGTC*IFTHLCVLRGLCW LLGCEMCM*MKYVCMCEKCTFTVG RC/M*VCVCAGDREHLAECVRGCVRH CTRA*VRMCI/CVCTC/LCV/CV*VSGVCI CKSPCVLCKSIVN/CV*A*THTWFCVHVC V
6631	14682	A	7352	310	863	STHLSLPKCWGLQA*ATLAQPNRSLLK YKFIYMSKGHYSVKVEKQPTWGRKIF WQTMVSG*GGLESRIYKELLQLSNKKTN A*LKSGAKAQHRHFSREHMHGQQHQ QRCLIASLIREMQIMT/LRGYFTLIRMIT RKSDNN*CWQECAEIGTLL/HYWWECE MVHGRGKIVWQFLKNIQLP
6632	14683	A	7353	3	357	SISNENFPTKESQGPETFTGEFYQTFI/DLS PILLKLFQITD*AGTLPSSFYEISITIIPKE* KSQENYSAMYLMNIDTKIFHKILATQI*P YINVIIHYDQVGFIPGMQSSFNIN
6633	14684	A	7354	2	207	GRVDHHTHPLRPLCPHSPDP/PQRM*SH SAVGASGLADPYERIVVS*DGNSSSPNH QGDGASQTSGEQI

6634	14685	A	7355	1	801	QPRDPSSGTHHPDGDGRGGQPAPICPRQG SCSHSPLEHAPCPILGPGSWPRWHL/DLL SLLGDPKVGGPIACPPGSPPHA WTGPVA CPGLGQPCSTPILPHIPICQHPKAPGGH PLCSKLLTCLPATPAVPSQPGHHHPLFIM SGLMGAWPSPEAGPGVLPSTTAE*GTR HWTHEEEAALGATDAVTSPPGFGRQVP APRMPAWKPCIRGLLHSLPSEKPLQVH RECVQPCEGLGPLAQTGAPQAQAWGPT DLSPQLPHRKHLK
6635	14686	A	7356	3	926	SSGTRHPDGDGRGGQPAPICPRQGSCSHSP LEHAPCPNLGPGSWPRWHL/DLLSLLGD PKVGGPIACPPGSPPHA WTG/PLWPVRAL ASPAAAPILPHIPICQHPKAPGGHPLCS KLLTCLPATPAVPSQPAIITPCSLCQASW EPGLLQKLAPA\PKLDHVGPRSQPGGPD VGVPVCTPKSRPSTCDTTPPLPGLNEER ATGHMRKRLPWELLM/PVTSPLWLWAA GPCT*DACLEMSLSHWPPSQPPPREKPLR SAQGVCAAL*RAGTTLPRLGPLRHKA W GPTDLSQPLPPQKASKINTRGMESVK
6636	14687	B	7357	73	255	XGSSEQQDTCNPGPCSSPTGNPEWGLR DTALLEDLGKASGLLLERMVDMPPANNK CLIFRKN*
6637	14688	A	7358	1	710	PIEITSQCGGIPRFAPITVGVVRVSSLPHHS RGEGLQPPPSQSG*GSPAS/HHHSRGEGL QPPPSQSG*GS\QPPPSQSG*GSPASGPGF CWGQ/RP/PLPSCSYSPGALQSSRTPAQT QGPAHHLRGSGPVHGGPPAPSPSCCLLP/ SLRVLPPGLPAPPATSTVCPPLPVCTPP WVICQPPYPLAHQAGLG*LPLGDREGVP FHSPNPSLQVCPRPLRKPRPWSSGLGPH AHNPMPSMGRSPPRATWTLT
6638	14689	A	7359	3	750	GRGAEQGSHLARAAAVPGSGPAWRPRP RGGLGLRPARSALRAGLPGRVAAVGR GPALPGQG/HLQSSRTPA/PNPGPCSSPTG EGVPPFHSPNPS/H/GKSVPGSSGKYDGLG VGLCPHAHSPMPSMGRSPPR/GKRGL*P DAQMQEP/SKWGLSGHSPPGGPGKGQW PAPGEDGGHASQQQMPDLPEKLSPSFTP AHLHSLPEA/PVRHEPCLPR/HGPCGRQP HPVCARHRRARRAQAQNKACPAAGKK KKKPVPN
6639	14690	A	736	109	346	PRSLSPHRPAPPPSVSVGFRPRGKRGTQG DKGKCLGYRGPQQL*PHGTPGPTQGRR ARGCYLQPGAWGPLLSPPWECDV
6640	14691	A	7360	102	380	GKKIPMLYFAEIEQCILKFVKRS*KAK*I LPKNNKAGGLKFPDFKTYKAAASKHQ VGGLWKELRSTLQAQQTWVPREELRST SPSYQTQVQ
6641	14692	A	7361	190	375	VIYRVSIISIKIPTTFFTEIEKTYNLG/WND NRP*IPKAILSL*NKVGDIPLDYEYHLN MN
6642	14693	A	7362	102	345	GKKIPMLYFAEIEKCILKFVKRS*KAK*I LPKNNRAGGLKFPDFKTYKAAASKHQ VGGLWKELRSTLQAQQTWVPREELR
6643	14694	A	7363	12	380	DPTVCCLQEHLTFKDTHRLKVKSWKKI LHANRNQKKAGIAKLISDKIDFKSKTVK RDII*MIRASIHPRRLINSYI/WAPNIGNT*I HKILKDLKGGINCNTIIVGDFNTHR*SRQ KINKHWA
6644	14695	A	7364	3	298	RRSI/NSVAQAGVQWRDLSSLQAPPPGFT PFS*LSLPSSRDYRCLPPCLANFLYF**RL GFTVLARMVLIS*PSDPPTSASESAGITGV SHCAWPISFS

6645	14696	A	7365	82	526	NHSELQLKLRVA*KMKCTADLSLLEKDT *IKLEENR*QERIMLRRAEVNEIENKIENIN KTGGSSEKYYKIDNPLTRSIRRK*T*ITS FRNEKGSVTNPTTEIKRTVKEY/YYEKLY ANKFNNLDEMCKFLKHNLPKLTQKINR KSECS
6646	14697	A	7366	146	588	LPQVMAEFRNPNPGEVEGRKAKSMKGQT TGKNQDNPNVIDEIDFLEAFKNIQPS/LFE ASLGLMGIKPVDWEEIGGLEDVKPEVKT AH/WSLRQKSGHCPV/GARLPTGLLATL GSGSGSGRATEAVSGPAG*KRASIGGSS QRPRRFTVP
6647	14698	A	7367	2	1041	CREAAMHALLHSEKDNPNVIDEIDFLEAF KNIQPSFRSVIGLMDIKPVDWEEIGGLE DVKLKLKQSNESPLTFPWEFVRMGLTQP KGVLLYGPPGCAKTLVRALATSCHCSF VSVSGADLFSPPVGDSEKVLQIFRQAR ASTPAILFLDEIDSILGAS/RQPSKTGCDV QERVLSVLLNELYGVGLKTIERRGSKSS QQEFQEVFNRSVMIIAATNRPDVLDLAL LRPGRLDKIYIPPPDHKVARLSYKRLYK KPCPIGPDVSLNLAETCFFSGADLRNL CTEAALLALQENWTRPQTLVKQEHVF*N HLRL*NRSVKVARTWLYMKTYLRKKDF LTVEGI
6648	14699	A	7368	1	2046	
6649	14700	A	7369	1	4340	MSAFESVPDDEEVDVDAVPENKLTFDNL AEGFRLFKTACDFLYHMDLSMNEDIEKE VKEEIDPDEEESPKKKHLDKKRKLKEMF DAEYDEGESTYFDDLKGEMQKQAQCLG GRSSVSMQAHRRPVVHGGDSCSDPAAM LTTVKAFTTGGVLQRGGLQQSWQAPIF MDVGEWEQRNWRNLNCRKLLWGFAAER SREMKPLLVEEVESKGFIERTEGRAV GIKSRKSGWCLGCPRTENQPACLOSDL NSDPRAL
6650	14701	A	737	134	387	PRSLSPHRPAPPPSVSLGFRTRGKRGNGQ RQGEVSWGTGGPQQLWPHGTPGPTQGR RARGCYLQPGASGPFLRPPWECDV*ERG
6651	14702	A	7370	18	731	KEELYGDFENLQTDGVH*GKFGPDSLNE DVQIQEEIDPDEEESAKKKHLDKKRKL KEMFDAEYDEGESTYFDDLKGEMQKRS TGKQHTRFPAPRHVQLNHAEFEDQD DEARVQYEGFRPGMYVCVEIENVPCFV *NFDPRYPILGGLGNSEGNVEHVQMRL KKHRWYKKILKSQDPFISSVGRRFQTI PLYIYIEDHNGRQRLKYTPQHMHCGAA VFWGKI*LQ*LAYCRD
6652	14703	A	7371	97	373	TYESEYFLLLLFLFFRRQSLALLPRLECS VKIIAHS*NVKLLDSSDLPSASRVAGIA GACHQAQLIFIFIVEMGSCSSFLSVGL NQLF
6653	14704	A	7372	1	464	LVFFSWCLFVCLFVLKTESHSIAQAGVQ* RDLSSLQPPPPGFNRFSLSLLSSWDYRR A/PTMPN*FYCWPAGLKLTSGDPPASAS PSVGITGVSHCAQPRIVSFTSNILKFKNS LSKGCLIEAYFDKTVKATVLEYLALRNP KPEEHIWGLY
6654	14705	A	7373	181	652	QNRDVHPPAASPNSAAQGS*RAKTHSVE GPLSVPGSPAA/PARSL*EQNPVKHSL P**LSSQLGSPLEDVGNLTLRHKPQSP PSRGRPRPEGTRLHFTEPQRLRSSRQPTI TAHVVLPMPLPTPPAAHACPLPTHAR GTSSKQAEPPSACS

6655	14706	A	7374	56	480	TRPTEHLKLSSAVSPGFCRWPPSAPKAEL SPAVPRSVAAGAATIAVVRSRWSPGEP CPLQTTASVRCAPMHRRPVDGACSPV *ACRAAARLGPREGPPWDQSPQSR KMLPVFGRASDAPFIDKKGFCLISCCG
6656	14707	A	7375	265	2253	LSILSHCKRGVGCWLFTVALGWDHEQP CAPSTHGRAQPE/GPRVLPGRSRRP/GTQ TLAAPQPEPGECTSQARSGGPVSPHKAG SEAQES*EGSEDPQD*ELQQERTAKNILG KRLPQ*IILYCHSHLGEQPQT*NPGERRV *PPEFGLGCG*D/STLLLAEGSGWRGP/P WPAGASTPLEAQAPV*AGGCGPPAELPP QPGGAGHPGRIPGGGSLGHQAGG*GQ** PHPSGPA*PSA*GPRSRRVPSGGRSQPAVS GPGWAWHCPASGPPGTSSFEPQLWLWP LPGLPGQQRPPRLSAARGPQAHGPPRG FSSPGDRHGPAAGGPAVHPARHQR*PAVP AGVTQPGAVQLLLPPHRAGPLQGGLGS LAWASCEGPPSLLLALPRASWLQTENW CQWLPPPSQVVSLGNRQ*RPDFAQGIP LRGAPLGPRLPWRGLARAPAGPFWGAP SQCQLPWGRHPSGHLSACPGLP/GGSVS GPPSGGPAGSPPTGPS\GAPGSAG*GPGM AQGGPQEL*GQGPKAGEADSPSPWPCL QGPPGLWAPLPRALDAPPAWVYPPRPP ASAGGSFCAAPRSPPAASPAGPASGF/SA APACSLITLKQDGGGPSISGPASFLQLAW PPGFHPARLHGPSAREARAGSPGPGAGF SAGRGGFPWLSAGCPVSPA
6657	14708	A	7376	58	412	RPAGCGSTRGTCEWARPSAAPCQTAAG GACSPWTPAPRSPAGRSWASSSWPG*C WAPPSGHGAQQPSPSSGQWVVMRWAP AS/WLPSGATPGPRFLALGTIGVPAGPRS PSPSFPTQRF
6658	14709	A	7377	1	1548	DKDNSGPTVLHLTARFGHPKVNNWLLH HGGGDPTAATDMGALPIHYAAAKGDFP SLRLLVRHYPEGVNAQTKNATPLYLAC QEGHLEVQYLVQECGADPHARAHDG MTPLHAAAQMGHSPVIVWLVSCTDVSL SEQDKDGATATHFAASRGHKSVLWLL LHGGEISADLWGGTALYDAAENGELEC CQILVVNGAELEVRDRDGYAADLSDF NGHSHCTHCLRTVENLSMEHCVLSRDP VELEAKQPDSCSMSSPNTTVSVQPLNFDL SSPTSTLSNYDSCSSSHSIKQHPRGLS /KH*SCRHTELHGHAEPRAAGALGHDWE AHTPTPTQLPPATPAPRHPTAPTPT*LPI SQASCGTTGS*HLHADQEQTTPRGDRGP QEGAE/PPATATTGYGGRTPAASPALSAS SPARGTTTGSWAAAPARRWSHARAWRT ARRRNSLGTCLTAAPRTPRRPGSSSCR RRRRRPCPRPRVRRRRSRLCPSRALALA AGSAAPPRPPAAPSLST
6659	14710	A	7378	2601	4758	
6660	14711	A	7379	1	741	
6661	14712	A	738	33	509	VSVSVGLRPPWELQVWVLCVPRGQAKT RLEPAGRAPEAPLPALSVLAGGSDSDSRF RQSLSSAAAPGADSLGARTELVEPGPS RPRPRPRRPSWTTASTADASRRRAAGAR GRGNESAGSGAEVRSEQVKRESIGNR* KRKNKTHSKRKKTLQKQG
6662	14713	A	7380	3	5650	
6663	14714	A	7381	1	1131	
6664	14715	A	7382	421	582	LPGAQGMPPRGVQ*PSGLHIPQGGSTRTS GLKAMRSPPKNHQVPDSRAGPWAYC

6665	14716	A	7383	3795	5290	WNWTVHGDGSAGQGPWLHLFCHKRQH GGISWPLVQREGRDEHFRNQREIAPPAG REQTAVQKQREMFCNSTGRLPGQPTTE IQV*RV*RP HKIYAE EERQFK EEKLAEQL KQAEELRQYKVLVHSQERELTQLREKLR EGRDASRSLNQHLQALLTPDKPKDSQGG DLQEQLAEGCRLAQQLFQKLSPENDEDE DEDVQVEEA EKVL EESSAPREVQKA EESK VPEDSLEECAITCSNSHSPCDSNQPHKNI NITFEEDKVNSTLVVDRESSHDECQDAV NILPVPGPTSSATNVSMVVSAGPLSSEKA EMNILEINEKLHPQLAEKKQQFRNLKEK CFVTQLACFLANQQNKYKYEECKDLIKS MLRNERQFK EEKLAEQLKQAEELRMGS GKYLNEHFVFTENDEDEDEDVQVEEA KVLESSAPREVQKA EESKVPEDSLEEC AITCSNSHGPCDSNQPHKNITFEEDKVN SALVVDRESSHDECQDAVNILP
6666	14717	A	7384	125	605	EAEALENQSQPCDTG/PQSAFSPPGSTQH PRSQLSQCKQRYQDLQEKLLSEATVFA QANELEK*RVILSEPLLKQDSKQVQVDL QDLGHETCGQSKNEAEQEETWPPAPYL VPRAPSCRPSQSRRGRRYPERSQRRPR GRPPPPCPRIKVKDGKNKTQG
6667	14718	A	7385	310	327	TVKLL*HVGNISLFSPSP*MLNTQWGK KSFNEWWWENWISTCRRIKLDPYLLPYI KTN*KSIKDLNCKTTK
6668	14719	A	7386	310	327	TVKLL*HVGNISLFSPSP*MLNTQWGK KSFNEWWWENWISTCRRIKLDPYLLPYI KTN*KSIKDLNCKTTK
6669	14720	A	7387	3	642	GKGLFDDEDEESDLFMEAPQDRQAGAS VKEESSSSKPGKKIPAGAVSVFLGDTDFV GAASVPSLKEPQKPEQPTPRKSPYGPPT GLFFFSAPHSKPSKTRKVQSTADIFGDEE GDLFKEKAVASPEATVSQTDENKARAE KKVTLSSYSKNLKPSSETKTQKGLFSDEE DSEDLFSSQSASNLKGASLLPGKLPTSVS WFDEDEEDNLLGVQ
6670	14721	A	7388	1	3096	MVTHQQAARKPNMTSKKPKPMGPKA HGIFSGTRKNNLEIYMDQTRTGIAKTKLS KNNKSGGMTLPDFKLYYKAIVAKIACG GSMYNSDTDEDEETEPSSSGQIIENSIT MNKMKLLKAKMKNMNL SKKHITQVSD EEEDDDGCDLFADSEKEEKDIEDIEENTR PKRSRPTSFADLAARIKGDVGRVDEE PTTVSYEDDRRGKNQDAYTEGGLSTIKT VNCSSSLAPSGEAKLRKTL/KEKKERTPS DDE
6671	14722	A	7389	1	238	
6672	14723	A	739	2	349	PASSIQQGRRACLEVTWSCSIWNPTAT GGLDRGSRVRSREGGGEAPVRVQGPGE MIPAVPKSSWTLHKMQLPGHVCSTLGR RGDEKGEAGPEAHAYDPSTLGGRGQRIT *GQEFK

6673	14724	A	7390	1	1374	DDIFATEAIKPSQKTREKEKTLESNLFDD NIDIFADLTVKPKEKSKKKVEAKSIFDDD MDDIFSTGIQAKTTKPKSRSAQAAPPRF EHKVSNIFFDPLNAFGGQLRSPSRCCQA DCCPPDSGLWVWGALVGLGGARAAQHI TQVSDEEEDDDGCDLFADSEKEEKDIEDI EENTRPKRSRPTSFADELAARIKGDVAVG RVDEEPTTVSYEDDRRGKNQDAYTEGG LSTIKTVNCSSSLPSGEAKLRKTL/KEKK ERRTPSDDEEDNLFAPPKLTDEDFSPFGS GGGLFSGGKGLFDDDEDEESDLFTEAPQD RQAGASVKEGKGLGSCVSVCRVPKLSF SLGDGTLRRHGCAASVPSLKEPQKPEQP TPRKSPYGPPTGLFDDDDGDDNDFFS TPHSKPSKTGKVQSTADIFGDEEGDLFKE KAVASPEATVSQTDENKARAEKKVTL YSQNVKP
6674	14725	A	7391	1	417	MDSSRSVGNFTYQDKLSSSKLTSVLEA VAGEYALVINGHSL/ARHRY*LGQYLLS EHFCPGLLYLVLIISDFREDWSQRLGG AETPRCLLERLALSGFSVLQAHLEADM ELEFLETACACKAVICCRVTPQLQAQV
6675	14726	A	7392	3	700	LVKSYLAQFAARAIHSELVSISELAQPLER GTHFPLFLLCLQLAKLQDREWLTFLQ QSKVNMQKMLPGKRKLTCLFCFFNIISR DFRYLEWYVGGTV*LSCDNDKHYHRS HL*REIYNLTTFI*SRC*VFFICWVGSLLC YKDLKYLGDICEALLSGQDHLVK*TIR* CRWLCLESDQNKDRMLEILEGKGLSFL FPTPQLEKDLFEQIKLDPSPQTTYKWKD NI
6676	14727	A	7393	83	3064	GRPRLPPPSLPLFFVFRSPFSLPYPRRP DPEEAAA*AAAEFLGEGISFLLSPPLTPS INILLKILRCQAAKVESAJAEGGASRFS SSGGGSGRGAPQHYPKTAGNSEFLGKTP GQNAQKWIPARSTRDDNSAANNSANE KERHDAIFRKVRGILNKLTPKFDKLCLE LLNVGVESKLILKGVILLIVDKALEEPKY SSLYAQLCLRLAEDAPNFDGPAAGQPG QKQSTTFRRLLIPKLQDEFENRTR
6677	14728	A	7394	259	1157	EARWQDVGRQLTKTV*PWGRGWSRIA SDPRLHAYFSYTAATGKAEPRTAPC KARERLGSCLD*SPPPPGWRPLRYPT PRRAGPAQFGKKRSASARSTWP*/VMQ RLAPKKTRKEQSANDHPIGGPEGRLFTS QLQLKFRALSERISWLEVSRAVTPTSAA VTSTPSTSKPRQKRPNSQSRSAKPTPG RRCQPGGRCPTCTRSP*LR*ARGRRHGE ARRLPLREARRLPLREARRLPLRAPSFR KVPSPGQGRSAPQAGVGAGTGRRRRSM DAWGRARSLAGSAGGVISLGR
6678	14729	A	7395	3	432	HIKRVKKNHMIISVGTEKAFDKIQHSFIIF FKFRKK*EWGHFFNLIKFS*KVRANITL SGDAFSLILVIRQGCLLLPLFDKVLKVL DSAVKQEKIIRDI*VGKEEIKLSLFEDDM IVYIGNNK*/SYRKLPEFINEFSKVAG
6679	14730	A	7396	3	504	AASTGGGWVSEFESVAPGSPDTTAAPTC PQRTPRSLE/LPHFQS*TGPCLNPISEPERVS EPGQNRGKPRPHYPGPNGWPGPA/GGC WSKPGSTPALSDDQANTQVDRN/DLQV ASEGEGA*PAELFPKKMKKRLGDLGPGF EGKNGLSTEDKNLIPQAWVPALCGYHV L
6680	14731	A	7397	376	419	VRKYSLCFYIL*NLFQNIKAEGILPNSFNE ARITLILKQTRHSKENKPYRPI*MDRHA EILNKISAN*IR*RMKRIHHGQVRFS*/G/ MWGWFNIRKQINV/IHHTHSLKKKNHMI ISINAEKEFDKIRKLPLRNIYKQNI*LTS* VMVRNS

6681	14732	A	7398	205	1463	VYKKVEASRNEKGWVCGTHAGAFPDEG EGPEEAFLGAETAAGAP/GARDHPPFN HGYAGLLEGPDQLQVSPHSPGRRQA*VC G*RAPQSDCPGSGRSGMGEAGMPPR/Q GPGGLQPPQEGSVFAVMYSIGGQGA RIPVRPQPGREGVGQGSLOPMKPDGEA ASIPTAGSRSGRCGPAGRRALVGRSL RP*PPC*PSPR*SPPSSGASSPGHPRPAL AHNG*SGWATRG**DTAPS*HLLVPKQ LAGTCLLCRCPKST**AKLEEIVPGSFHSP RGSYSRGLGAQHQLPSPASVAHPRCQPA PSAASHG*RRPRACLSLHGQLGMIW*S *APSGVQAQGHTHPPGPDISAERAPAGS* LSQLQGPG*DSGGLSGGCAVPPVAAGH PGSLAWQLPPR*SPAPGSGSPAGRP
6682	14733	A	7399	2	680	
6683	14734	A	74	743	1233	ECGVFSFPFLRQCLVLSPOAGVRWPH LGSLOPQDSPGSSRPSHLTLLSSWDLTGT CPPCLANFRIFVETGF/TCFRLVLNS*G SSDPPTPQSVGDCRAGSHHTLAVFSFCF EMGPCSITRAGVR*HDHSSLQ*NPGLK RSPCLSLPSSGDYWSMPCLA
6684	14735	A	740	15	239	
6685	14736	A	7400	658	1657	PGILSLRNALLTGVDCKVVVPVPPGHTH PQLRLFHFHPKTCSGWGEWGDHGVVW AGPAPA\YHLHRDVQALWTNDHALAW P*AMTSERTLWPGHELARPGRSWRISC PTGLPQGGDDRTRGHWVTATCCSADGL RLCRYGD\GVRGGLPTVAWP*LTGCSL RYGSGQQCCYTADGTQLLTADSSGGSTP DRGHDWGAPPFRTPRVPSMSHWLYDV LSFYCCCLWAAPDPGKDRAGLGCTPT*P STLTLASAFGDPHFVTFDGTNFTFNGRG EYVGMG*NQGGRLPSGSRSAPTTAGTE TRGTGLTAVAVQEGNSDVVEVRLANRT GPER
6686	14737	A	7401	1	422	RPKPKNSF*LGGEKANKIPHPLMIKTLTK LGIEKTYVNIKVIPNRPMACIINGTKVK AFPVRFERQRCSPSLLFNIGLKVPARAIE KEKEMKGI*IGKKEIKLCLSGND\MTLYL KQPKNSPKTIRTDTFKAVAGYKN
6687	14738	A	7402	247	660	NWSGRRLRMWPSAALSPAVSSPALALTS PPKPLVKGRDGKPPAGRPPGREGPGAW R*GPSPTTLGPAKAGSGQRGGRCP*GP GWRPAASQPLSGCPWCPGITELLESPSE TAEQDRGPGSGEDS*TPDFYTPTRP
6688	14739	A	7403	229	1047	HSVQKAKADKTGVDGGSECGPPLLSLL QSHPRP*P*PLPQKPPEREEVWPKDGKLL ASRAGGLVCISLL*EPRVHSCTGGLPVK AELGLLRAQGLPHPASPARLGNTG/VGL ATE*TGISEHKLGLGN*GVMGDAVR*G LCSEGLCPPSRPWGPMGVCGGLAAKAR PH*QG*VCAPGTHLEGSSVWSLPSQLFP TPGPPAVCSALAPAPTPARTDGTIQNHL WPVTRKSALPVQEWGGDSWGTGQAE EGPSVGYPGCP*LPGEGRIPPL
6689	14740	A	7404	595	626	CPMPLVPPDISLINEQTEKEAGDLVCP/A GPVPDSFPLGSEPSSHGVSELKTRAKRQR ERHKKGTEKDRKAERGTPPGPLLPFLF VH*SG*CQVAQGALDIISWLKIVPKSVFP GCPLKSWAAAAATPCSPCHPSSHCSVGV PGRASKFCACPLECP*SPSPLPSLQGPL CPPPFHASPPDGNPGGQGVPLCPLRGSPG HLCAMSRCLRWNP

6690	14741	A	7405	1	603	EMESRSVT*AGVQ*QDLSSLQ/PLPLHPG FKQFSLPPVSPSKLGITRHTAYLNFFVFL VGDGDFAMLARLVSNSSSQ/CDPPSSAS QSVGITGVSHCACLTCSLCCQTMCFVA SRYF*FWDGNLFCYNLQIGDVYFIIYLF VMRPSYITQARMQWCDLGLSPSPPRF K*FSCSLSPSSWDYTDHAPPCLANFFVFL AEM
6691	14742	A	7406	211	387	PNLG*LNPPPPGLKNFSCGLP/SKWE*K GQCLPPGPVNFGLTKLGVFPCGPGWLE IYN
6692	14743	A	7407	3	326	LSGVMLSPGFPGYYLFST*CIMDNKATH RYCVYISS*IFLQK/HHDYLEVRRGSSE TSTGIGRLNGPQIPCFLSTHETSLYFHS DYSQNKQGFHIEYQGERSNKK
6693	14744	A	7408	1	553	SDPRTETESHKMLTD*RSSYLSLTALPF/P LPKSEAITRNRASRAASLVRLTPSKKDV GFLQKPRLRSCSPSSRCPPGSAARST*AA GTACGCCGTSPRQR*APGALGLRRPPQS *GRRSSPRPSLTHPSSSALPPPPTSPRTR YRG*SRAAPLLSLRLPSGKLFQPTCRPRV SLR*RPSQRVE
6694	14745	A	7409	3	377	KLSPSKPILASTLMGPIYHSHVKF/IPGMK GQFNIQKSIIMTYHINITKNKNDMVISSSS SSSSSSSSSSSSSSSSSSSSPIEGNYFPITKE/Y EKSIANIILDS*KLKAFL/RSRGRQGYLL SLLFN
6695	14746	A	741	2	311	FQLDTGSRAPML*CSGVIMAHSLAKSLQ TPGLMGSFNLSLPSRWYRHIPPYLANF LIFFIEMGSCYITQGSHPFTLNGLSLSSLA NKIQGNIGSDLVEDTG
6696	14747	A	7410	1	409	NKVFHNKRSHQENKTLNVHVPNNKD PK*LK/QLTKLTEDTDSSIIIVKDFNNPLS/ TL/DRISTQNIS*DLENLKNTMNQLDQINI YRT/LMPSNTKIEHMMGHKISFIKFQRIKI IONTFSENGVTKSNNRYLENPKL
6697	14748	A	7411	3	414	KGQDLYGEV*KVLLKVIKQVLNKWKD MSCSNN*HTNFISN*NCIKVFF*LDEI/CSF V**NKC*RIAKEVLSSSQ*CLGGHL/TPH IRRSYNTTFSQSIWCCYRTKQID*WTRTQ NPEKDLRI*GDLIYDLRCCSSSRA
6698	14749	A	7412	3	333	LIKEGOIQKLSAKNGTPQDRHLFLFNSMI LYCVPKLRLMGQKFSVREKMDISGLQV QDIVKPNTAHTFIITGRKRSL/ELQTRSSR ATIEKHKQNSETFKAFGGRLLARD
6699	14750	A	7413	3	391	EEDIVNPANDLIKEGOIQKRSKNGTPQD RHLFLFNSMILYCGPKLRLMGQKFSVRE NMDISRLQGQDIVKPNTVHTFIITGTKRS LELQTRTEEEKKD\WQIIPATIGKHQNA GETFKAFGGPLNQGW

6700	14751	A	7414	3	1811	RYIDVLGRRYTAPGLG*LWRHPAQSAVP TAHCGDPVSLAAAGDGSPDIGPTGELSG SLKIPNRDSGIDSPSSSVAGENFPCEEGL AGPSPTVLGAHAEMALDSQVPKVTPEE ADSDVGEEPDSENTPOKADKDAGLAQH SGPQKLLHIAQGGFLAPVEETYVVKRLHL DQVFCSTRG*RMRGIPPERSSWGHNLSNI FLPFQASHGQFLPELKTRITEEWDTP RLGDILQKLAPFLKMYGEYVKNFDRAV GLVSTWTQRSPLFKDVVHSIQKQEVCGN LTLQHMHLEPVQRPVRYELLKDYLR PQDAPDRKDAERSLELISTAANHSNAAIR KVEKMHKLLEVEYEQLGGEEDIVNPAHE LIKEGQIQKLSAKNGTPQDRHLFLFNSMI LYCVPKLRMLMGQKFSVREKMDISGLQV QDIVKPNTAHTFITGRKRSLELQTRTEEE KKEWIIQATIEKHKQNSSETFAFGGAF SQDEDPSPDMPITSTSPVEPVVTTGSS GAAGLEPRKLSSKTRRDKEKQSCSKSCGE TFNSITKRRHHCKLCGAVSPGRGGQGOE ATLSSALTEQLSPHQHTSHAHPQCTEG LPDPGSWI
6701	14752	A	7415	189	392	KQKWEKKQLKKSPGPGAAHTCNPSTL GG*GGRITRSGNRDYPGQHSETPSLT*N GKNLGRGMVGG
6702	14753	A	7416	2	325	SHAGCLIRFWRKSMPTHTSLPLTPTFLGT CEASFLEPRASVPPQCSMALRRYRLDM GQSFWGGPSSHPDPSRPGFV/PGVGHV PGQEGPGGKPADSS*H*DPTGG
6703	14754	A	7417	9	1430	NDNASFGEVYYHPYPPVGSQCHDES GA GFPPGPGSCPGTWPTPAKPGREGSGGWL LGQASPVTTAPCPACIF*VPCCTGEGQG WLGAPGKDASH/GA*KM*GVKGRLCVG APEGAG/PSQGI*SFFTEP**AHPQNGLYE DEHKNSRWGHPHPA*QWNWDRTS*CNI PSRP*VPHPWVRCAGLEPAGPGPHRTRT PSQGVILFLQKRIKQPACEPYALFTPLSP HSSVPASARPGSPSD*MCRAPEDESCPEMA LLPGMGPPGSGERCSPRSPGAQVTGGV PGPFTWGSGESRCFRAPSPGASGEEAKC SRSPFTGGSGESRCGAPSPGAQVRAGV PRPITWGSGESRCSPSPGAQVRTGVAP GPFTWGSGESRCGPLHLRPGSVYPVFLA PERKGPQRSQEKGHKRGGQAAPKPSS R/PQESPSPLTPSGGPGSGRNGA*GVSEG *SAPGSGGEEEDVFGC*GPPALGPEG
6704	14755	A	7418	1	389	HLTFCHHHYDDRVRGLYKGQKECPGIPR VYRIRHIGRHLVYLQFKDHPGIHQPLE PQVKYVGNMHSNAFGR*LMLQLSEFL CEEIRNKNQRIVQLIQDTRIHLPSMNPDC YQGGVAKGPNKPWLC
6705	14756	A	7419	31	392	KHNRASTPPS*KKSSSPVTTKGRVYTKTP HTDVPQG*QPPYKQRGGTSSSPFSFISY SIVLSSSR/PPHPGPTSPRLHPSRSHLSEV PPLTQVPPLQGPVPHPDPTSPWLYLSPSS YLY
6706	14757	C	742	398	574	
6707	14758	A	7420	2	704	TDSKCPFLVHQAHAAAM*KERHFLTANG SCIKFHQDINRLSSVFLP*ELVVRHCRG HQKRVDEIAKGNRLADQRAKSAVRRPQ GPKTLEAPLIWEGYIREIKPQYSP/DRDR MGHLSRYTFQPSGWLQSEDCKVRLPASS QWKILKILH*AFHLGKHKTSVHPKIVLRR KSTKNGQIGC*YS*NPLKNNPFNR*LLPH HNQRMGSYSGEDWQIDFTHPKINGIQC LLEWVHTFI

6708	14759	A	7421	2	705	FSRDEVSPSWPGWSQTPD/LRDTP/CLGL PKC*DYRCGPPH LAESKFYFPII*KLYHS MLCL*ADSKS*KPMSLFLLFLFLLTQN FALVAQAGVQWHGFGSLQPLPPGFKRFS CLSLSSWDYRCLPPRLA*/FFVFLVQMG FTMLVRLVSNS*AQ/CDPHALASQSVGT IGISHCSWPNVHIIITM*IFFSIPSPLLIR HLFFLFFFETESRSA*AGVQWHNLGS LQPPRL
6709	14760	A	7422	33	775	VMGPAPAGEQLRGATGEPEVMEPALEG TGKEGKKASSRKRTLAEPKAGLLQPVK LSRAELYKEPTNEELNRLRETEILFHSLSL LRLQVEELLKEVRLSEKKKDRIDAFLE VNQRVVRVPSVPETELTDQAWLPAGVR VPLPKCPMP*RACFRFLAPKPRITVCEA SYLSGQPSIRPDINVDVALTMPREILQDK DGLNQRYFRKRALYLAHLAHLAQLDPL FGSVCFSYTNNGCHLKPSLLLRPO
6710	14761	A	7423	74	576	LCWQPIRWWSPTLRANGHQK*/SGVAILI SDKTNFKATAVERDKEGHYIMLKGLVQ QENITILNIYAPNTGTITFIKRLIDLRNEI DSNTHVGDFTPLTALDRPPRQKVNET MDLNYTLEQMDLIDYRTFHPTTAEYTF YSTAHGTFSKIDHRIGHKISLNTFK
6711	14762	B	7424	158	346	XLSQGEVVPQIPVKS GGGPHGAGVLGLHL EGPFISREKRGAPHAHLRSFEADAFQDL LATQGQX*
6712	14763	A	7425	1	1768	FFVFTFVMYFTTIFKKQTKTNLKSASPTP QNHP/GSSSLAQ/PLSHDPGPLSHNPGLA LWDQPSLPAPPRPSSQGGGALCGEWGQ PGPKAGPGLTSS/GDWGVPSEVGDDQHA SSGF*/P*GWGTFKH*QPASLGTGRCS NTSAENLTCLSLPGSPGKTAPLPGAQA GAGQPLPKGCAAVKAEVGIPAPPPPGG QDPHPSPAFLG\SPGACGLRSTPCALPQA LPQARPCPGRWFFPWLFPFQTTGGAPDHP ISLDPGDISFNWALQOEGKRTSARA/RGA YLLCPRTAP/GKQGGREPPTPELKWRESQ DNHP*RGAAPIPDV*PHCGCPQSQEGSRS PPASKLFGESRPVFATWVCSRAKGTQK MAG*H*WGEQGLVPRHTALQHQAGSP QPASTGPGDV*RDRVIEKRKQNAHPW HSLGSPGS\KNRGPSPSLPPGQSGAPG NCALAQEPGCGF/TRCTPQTQEQKANP*L STLPVTGPLPAGSSPPAHGGFTPWAPAT* LPAPPSH**HFPGVCRSPVP/PSCRQALSP TGAQGP*TTAQPSHPRP*MPSPGGQPIG WCHM*AAKPGAKASPAGCTFSQPPPP GRR
6713	14764	A	7426	36	620	QHLKLLNIKNHTGEKS*KCKECDKAFK WLSHFIIIGKIVHTEENFYKCEQCGKTFNE CSHLIAQESIYT*KKMYKYKDHEKAINIY SHL/NHWRVHT**KEYKCNVCQKIFQ/INI NL*SEEGIFYFEDEHYKCEEGCSTFICITDFI VHILY*KKTLK\CCSNFVQHQQGIYIEEKL KFNKF*KTLFQKVQLRRHQSSY
6714	14765	A	7427	3	276	PKKSTEKLLEVISNNSKFTROKANVQKSI TFLQYNSNEQVKFKM*NTLP/YKMKYL ISVTKHMQDPYEEKYKTLMKDNKEEQN K*RDIPCL
6715	14766	A	7428	125	456	LADWAHRAPASPQRNGADYAVYINTAQ EFDGSDSGARPDEAVSWGKIRVDAQPV K/VKRWLGGA*GLWDDECGSHGLPRFPP TQVYAAASLVFPLLEAETFAQKMDAFT HEK

6716	14767	A	7429	1	571	LSGKEVRENGIHRVGNLLVPNENYCKF EDWLMPILOQMVMEQNKRGGLKKW TPSKMIARLGKEINNPESVYYWAQKNHI PVFSPALTDGSLGDMIFFHSYKNPGLVL DIVEAERG/ADYAVYINTAQEFDGSDS/G ARPDEA/VPPWKGIRVDAQPVKVYANAS LVFPULLVAETFAQKMDAFMHEKNED
6717	14768	A	743	3	862	RNERHAYDKGTWKTRRAIMTVQ*SGET NVDRAYNLLYQTLDTWDSYVTC*ENKEI AAGQRNESHSDWTYQVWEWLQHLL DTNQLDANCIPFQEFDINGEHLCSMSLQE FTRAAGTAGQLLYSNLQHLKWNGGHTG ISKSKETRHLFPFFYLPGHTLATCRAY SKRLQPKLQCAVHSFVTPGIPYLDEIGYR ARDLREPGQGV AALLPLSSDGNPRRRPG LPKLKAQRRVRFPSPNKGRGGPSSPPFHS AFLNWQHKNVWMVKELSSYLGPLQY YPGSFGGAI
6718	14769	A	7430	1	311	RRVSSESRSLSRGRSLEIQGRMERPR CQRFRENSCVAPRHCKGPGGKGLQALF* VPVAQLGEPGAQLGDPGAHGEATVPEV QGE/PAALLPGTAKVPGEGSPGFIPPRHC RGTGEEGSPGFTQGRETSKAQRTGCLL SCRGCCLCLSVSGDS
6719	14770	A	7431	250	503	DDEKSKIEE/VWVGSDEEDNGKDKKK KTNKIKEK/YIDWEELNKNIWIRNSDDI VTQEEYREFYKSFTSD*EDHLAVKHFSVE
6720	14771	A	7432	3	540	KRRGSFKMAELYQLPDESSAKALVSLK EGSLSNTWNEKYSSLQKTPVWKGRTS SAVEMPFRNSKRSRLFSDDDRQINTRSP KRNQRVAMVPQKFTATMSTPDKKASQK IGFRLRNLLKLS*RH*WGIL/AKWFYSNI DKPLFEGDNDFCVCLKESFPNLKTRKLT RVEWGKIRRLMG
6721	14772	A	7433	3	322	FFLRWTL/DTVTRGGIQWCNLGSPQPP/P PRFKRFSCLSLSSWDYRRPPPCANFLY F**RRGFTMLARLVLPN*PRDPPASASQS AGITGVGHRAWPMPIFENRFDL
6722	14773	A	7434	22	475	PRMISCRPTRPPTRP*SHSAPFRHFLLVHP VKAKYFLSAVMTTHHLASASHFPPFAA* SATFPAAPQPMWTSDLPPSTCLPLGTS PLPSRPLLVSACS/SFPDPTQMPPLSTVFP GLPFL*PHSSALSLPLL*LPHGFALSPSSV PFPT
6723	14774	A	7435	14	362	LFYQTFSNVN*KT/RHKMNK*TEDFNNTI EQDLTLTVTFISLHSTVEYAILLITHATIFI DHLLS*KTHLSK/CSADGITQIIPNYDTIK QEVKNTNMSKNK*KLNNKFSNTLLFKR L
6724	14775	A	7436	1	440	SPFPKKNFYFSLRPLIFLRGVGPKLPPPKK RVFSKNPPEVFKSPPLKKNFSFPPPVNL GPPKDLLKG/PPSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSPDRERPPTI*N*PTRP
6725	14776	A	7437	8	487	DEVSLVAQAGVQWHNLGSLQPLPGFK RSSYLSLLSSWDYRCPPPCLANFFIFSRD GGFTMLARLVLS*PQ/CDLPASASQSV VITGVSHCARAPSF*MSASGVTCVGV ELFGMHPVAEANDHLSGALVPFSALFS HFMPGLLPTMFCPLRGCE
6726	14777	A	7438	1	445	IDCWHKCDNSMGKDNLFN*SYWDYWI SI*KKRTSNLISPIHKIES/RWINLVNSK ALFRKQKRTLHDCGLGNSFVEETQKAL TN/WDIKQLQ/SFCSSKYTTKKLKR*ATD WGKIPTLFAKNNDKICEHTHNKRRYM FGQMHVKKWA

6727	14778	A	7439	131	763	PGISADSRGQKLS*WGPESHQPPGPKLG SAPGGGLCGLVGPAAKHALRPSFHSGA PSAGNLGCFAAWASSLNSNQSPSSKG HIPKDRGEPRGTVPSLRKATATGRKAER LSDEGRSSVHG*AGIPGHEGNAKENRDR HPWQLPGIASAAVVIASGRGALPPGGQA GPQKLAPPFSSLSVPGGARWG*AEGAPS KQRGKVTGEPGRQC
6728	14779	A	744	15	404	RNFRVDDLVSPPCCGILWFFTQGGASCW RPLATLPSRQKPGSSPGKAGCWPA/WDL GLVPHGVSGVSIAASSTPQGGAVCSPSV AAPSTLLLLRTHLLGAASLQGCQHQLL HHLIGMDLYVAASPSHRFW
6729	14780	A	7440	47	265	
6730	14781	A	7441	1	330	HHHLAPFSSLPFNIVL/EEVLARPINKEAK *KAP*LERKEVKLPLFAEEIQEMIWIYDN SKESTKEELLEINKFIKATRYRFHIQ*LVF LYTCNNLK*KLIKYSINLTKV
6731	14782	A	7442	3	423	NNALLNNPWVKGAIPKEVRPYLD/TREN KVTA*QNLWDALKK*/CSGKLIALKE*C QINNLSFPLKPEK*EQIKSPVNIKNVIFK KLKIKKGLKV*KK*RKISSETKSWFLEKVI KIY*SQGRHARKKNEKSGITRDSRTRG
6732	14783	A	7443	1	689	YIYIYSYINIQFVFL*EHLINKFLSFVYQ LMLKH*KKRTTNTLFTLRTM*AFLFYY QIICISYVIAAVLFCI*IFFP*HLCLLVVLF MYFFNILRFIPLLRSDITSFHYMPLFGRFL SC*SKQEHHLNCPGFIYFINLLVWKHFFL DVIFTLVYYFVG/FALILYDFLIMSVC*TF YLSLFISR/ACLLFYPHI*LIFIWAYISRLEII SFHTF*GIYTFASEIVFIIF
6733	14784	A	7444	3	545	TMLLFTLQNRCTSSHCPMPAPALCPGK LTVGTGSMGPRSPWPPSSANA*PVDKP SGQEG*GQCTAAAPCRVAVSLSKVRAP GDGLSCGSSCPG/RQGRGVPCPAAGER REGREDLKPRE*IGSCIKNKLGISPAK*D* KNSQDKSKKNPIGDRTSLAVGTVPQSTR PRVPLGYHYCY
6734	14785	A	7445	243	768	NLPNK*QDEGRGGGAEPWPWG/SLPPR DVEAPSPRLGAPAWPPAGRWPPREG AWLG*VLCFRKRSPLPVLGVAGA*ASVG GGCVGRCPLSGAWPPPGVGDKPSPYCSE RPAASFP/PRTCVPFNAEGGGERAPRDSR GEGSLPCCRGEERGQGLKTTRINRFVY QEQUARDFTS
6735	14786	A	7446	596	1335	LEQITFSVATAMDSRFPDFQDLDEPERA CHDAAGTLEVDFFLNFGTVDLAGRKE TTTEQALPPALLGIRPEFLSRPSVQTED APSKVNYVLCCLIAECSPGSDYLPACIP SAYR/RWYLDFCPR*FLPPYY*RRHPFQW TTVTQEAFFSHHDVAFTSTPVLFPYDPAQ PFIVKSESSQIAKAALSQQRPSLIYERL HFFS*SLQRHTIDLDQGIF*ILMLSEERQH LFESSIGHPHTISKD
6736	14787	A	7447	199	450	ERSFSKKMP*NPPGGGEPP*PTLGIPSSPP PHLLGPKFLEKIFGLPGLPGGKIFP/P/GFA FGPNLGSNGEIPGGINPRSLPLGER
6737	14788	A	7448	154	695	GLLSNLLISIFFIPPKKSAPKYQHMKHSQS FHFYCFNTHFNFLNKF/FNELQ/K*HEL KLE*SKILYNQNKPSVTYREIMQLRAQL KKIIDSVKHKRTWQGLKQGV/YWGFYV NVIGKSFFYFWDKYFIFIDWAKNTLRIN MGPERPTVFLPNFIYSQSTKLALNWVINI MGQFIPSYSVSA
6738	14789	A	7449	203	443	FFVKGPKNTHW/RKDSIVNKWC*KN*IST CRRMRDTCLSLYTKJK*KLRPIESGTE PR
6739	14790	A	745	1001	1459	

6740	14791	A	7450	8	312	QTLALSPGLGVQWRDLGSPQALPPGFMP FLLP*ASQISRDYRRPAN/LMPGPNFFIFQ AETGFSTVLAPGWCDLPDLVIHSASASP SAGITGVSHRCPARTF
6741	14792	A	7451	1	2554	MKVWLLLGLLLVHEALEDVTGQHLPKN KRPKEPGENRIKPTNKKVKPKIPKMKDR DSANSAPKTQSIMMQVLDKGRFQKPAA TSLLAGQTVELRCKGSRIGWSYPAYLD TFKDSRSLYNSRGLLREGQAGPMGSQP KVNPTMARVPQVEPPVGETWESSTLLA DGAVDKRSSFALCSSFISTWKLATLNDP VHLLSLVCTWTLRTAGRSRTARHVA ASRCGHLTFAWQNQYISLERLSVYMCRF VTWVNCMSRGFGVDYFIIQVLKLIQVLP PDSVHPRSHKHLLSLRSEIAKTTSYCPKH SSLSIPLPRNQMRSGVSVTLEQRSESTSSP FPVTALLFVNLT SWLGKGPILPKYVAVS VQLSRAGACFSDVTHREVLMSFCYMVV GGDFLLGGSLVCQVWFVWFVVSRGYTLLI FSESREYLKEEEELFLCKGPGYAGQVRK KNDDPSSVKQNERYGQTLVNSTADT GEFSCWVQLCSGYICRKDEAKTGSTYIFF TESGGRISVLVNLVLT AQELLAHEPFDD VSRNSAPNLKHHLTVTQRRQVGKKAKK NYLFQEHCGENTRKHVIRIGVSLALKISL CKYCNIPSQNDPEKQRIQCTMPKKKSHQ HQQKYPQKPSPEFLACPKDRIEKGELFVP SPSYFDVVYLNPDRAVVP/PGDRAVG QSHAPQGIPSGDPSQWNGHCL*HEAGL CVSATSFRAPGCGLLQGGGRGQISDLRQ VPAALRGGPNNSSKPAFCSSCHMQAPW* V/LAALSRRPQFPPLSPPLSLLGHQVTG IPSGPPSTTILASSNKVKSDDISVLCVTL GEPDVEVEFTWIFPGQKPPSRVTGLWAG TWWCLYRVL
6742	14793	B	7452	1	2586	MKVWLLLGLLLVHEALEDVTGQHLPKN KRPKEPGENRIKPTNKKVKPKIPKMKDR DSANSAPKTQSIMMQVLDKGWFOKPAA TSLLAGQTVELRCKGSRIGWSYPAYLD TFKDSRSLYNSRGLLREGQAGPMGSQP KVNPTMARVPQVEPPVGETWESSTLLA DGAVDKRSSFALCSSFISTWKLATLNDP VHLLSLVCTWTLRTAGRSRTARHVA ASRCGHLTFAWQNQYISLERLSVYMCRF VTWVNCMSRGFGVDYFIIQVLKLIQVLP PDSVHPRSHKHLLSLRSEIAKTTSYCPKH SSLSIPLPRNQMRSGVSVTLEQRSESTSSP FPVTALLFVNLT SWLGKESREYLKEEEE LFLCKGPGYAGQVRKKNDPSSVKQNE RYGQTLVNSTADTGEFSCWVQLCSG YICRKDEAKTGSTYIFFTESGGRISVLN LVLT AQELLAHEPFDDVSRNFAPNLKHH LTVTQRRQVGKKAKKNYLFQEHCGENT RKHVIRIGVSLALKISLCKYCNIPSQNDPE KQRIQCTMPKKKSHQHQQKYPQKPSPEF LACPKDRIEKGELFVPSYFDVVYLNPD RQAVVPCRVTVLSAKVTLHREFPAKEIP ANGTDIVYDMKRGFVYLQPHSEHQGVV YCRAEAGGRSQISVKYQLLYVAGWMFS FLVMTLTENPSSPFQPNPSIVHSGAASVL DQQSQQFIQACFLFLSHAGSMVSAAL SRRPQFPPLSPPLSLLGHQVRGIPSGPP STTILASSNKVKSDDISVLCVTLGEPDV EVEFTWIFPGQKDERPVTIQDTWRLIHRG LGHTTRISQSVITVEDFETIDAGYYICTAQ NLQGQTTVATTVEFS*
6743	14794	B	7453	520	600	MIDCVFGAELAESLSFILGILGFTLL*

6744	14795	A	7454	78	624	TNKSQGSQGLCVAGPRACQSSPVQQR NVPPLSILSAPFSGS*GL*PCGGVLGATG GAELMGLLRSWCPPGVCTVSLGQQVGS LSLESEPPASSLNNRGLLREGQAASVGG QPKVTSPTMARVL*VEPPVCETWGPHP WQMGPLPRG/VWAGPPQTPPCGVTQLA ANGKQPVVRKPGSYP
6745	14796	A	7455	3	369	ISQPPKNLGPPEKTYKRPPSSSSSKKEFPF FFPGESKGGVLSRPGSSSRVKPFSAPTP PKKGGPRSSSRGKSSSRNFKKKGGFP G*PRRFFFPGPCKPPRPPKKAG/H/YRGK PPGPGPK
6746	14797	A	7456	2	648	QTLPFKGRLPQEDGLGIRRPSCRPAWP CQGAACPLPASLQVVPQHMDPIQLVP PFLSPARLLEL*EGRQKGRWGRPSQAG GQEKQLSSSSASPTAERARPPRAGTYG* CLALP*VTGGVGPMASTLPVTTGMGQD SRGNR*EGPGVR*/DWGCSPRER*EGGTG VALEERGLLQRQREKTSVGVSSEPGEVF QRPALPGPWVCPRLHKRLA
6747	14798	C	7457	89	376	
6748	14799	A	7458	3	864	MNFSPLFPSNFGDFSQNIPTSEQQQPLA QNSSGKTEYMAFPKPFESSSIGAEKPRN KKLPEEEVESSRTPWLYEQEVEVEKPFK TGFSVSVEKSTSSNRKNQLDTNGRRRQF DEESLESFSSMPDPVDTTPTVTKTRKA SAQASLASKDKTPKSKSKRNSYSSWK SRVKNIRYESASMSSTCEPCKSRNRHSA QTEEPVQAKVFSRKNHEQLEKIICNRST EISSETGSDFSMFEALRDTIYSEVATLISQ NESRPHFLIELFHQLQLLNTDYLQRAL
6749	14800	A	7459	2	743	KASQASLASKDKTPKSKSKRNSTQLK SRVKNIRYESASMSSTCEPCKSRNRHSA QTEEPVQAKVFSRKNHEQLEKIICNRST EISSAHARRILQSNRNACNEAPETGSD SMFEALRDTIYSEVATLISQNESRPHFLM ELFHELQLLNTDYLQRALYALQDIVS RHISESHEKGENVKS VNSTWIASNSELT PSESLATDDVFIQEK*KYASQKHLHNV HSIFSHDSLKLKHQING
6750	14801	A	746	3	357	
6751	14802	A	7460	1	336	IYFPTPEKFGPPKETLKKGAPSSSSSKQKF PFFGPGGKQKGGFGLQTLPPS/RSSPFP QPPQEKGFQGRSSSSG*ICIFKKKGGFPG WAGGVQNPKNPKGFGPPGLKPWG
6752	14803	A	7461	1	3010	YRIPGGGTWQSARPRVGSRAVDGEA RRGLCSPSSRRWRPGPPQHPGPRAPA LSCAAAAPARRPRGHAESRRDGLGSAE EESWYDQDDLEQDLHLAAELGKTLLE RNKELEGSLQMYSTNEEQVQEIEYLT QLDTRLRVNEQHAKVYEQLDLTARDLE LTNHRLVLESKAAQKIHGLTETIERLQA QVEELQAQVEQLRGLEQLRVLREKRERR RTIHTFCLKELCTSPRCKDAFRLHSSSLE LPA
6753	14804	A	7462	2	190	SSNKKKPPNKNHPEPDSFKTEFYQT/INT P*IPILKLFQKTELQEILPNSFCEVSITNSS TRR
6754	14805	A	7464	359	1095	PKGNGNLWCGASLLNARMRAGNKSP LPRLPPGATKSLPQALQFQPLLAEPDSA AGLGTGGTPRLTEVGGAL/S**RSGSGFP ENQKGPPDPASGYLDLMHTPPFSQDPIS PASHMPIPSWSTLFSVEDRRSRQKTTGR WGSRCGLPHTCSILVGGVTREGVEMLP MGTCGKCAPPFAPHLAASSNSVLTAGDP APGAGRLGSAAQEAALGQGGGRRSQAP PRRALQRPHAWVETTSQWRSAG

6755	14806	A	7465	16	405	VGAIQRAPPPSCARCLHTPDIRATLTQ TPGGLTPQQEKDHEHGHGDRAGHS VWVLDPGTCSRRRWFSPLYLELLRSS GECRG*SPASPSLSHHTAHVTPKAFIEHL LCARCKEDSGITGQGAF
6756	14807	A	7466	16	255	ARPSCPCSWSFSCCGVSPGA/LVTEAAIF YETQPSLWAESESLKPLAKLMTYFKNS TYLIRLFMIYRCKPVKSKKKKRN
6757	14808	B	7467	1	1026	MRARRLPWALTVAELGWDQTQGGDQT SPGGNDRMSMEAECSTTVSPLSCSIPTG CGQTREEVSARATPPPSLGASLLQTLTPD THCTGVSATIMSMMLVVFLLLWPFSSST LAKHKRIHTGEKPYKCEECGKAFRSST LAKHKRIHTGEKPYKCECGKAFRQSST LTKHKIIHTEKPYKCECDKAFKRLSTL AKHKIIHAGEKLYKCEECGKAFNRSSNL TIHKFIHTGEKPYKCEECGKAFNWSSSLT KHKRIHTREKPFKCECGKAFIWSSTLTR HKRIHTGEKPYKCEECGKAFRSSTLTK HKTIHTGEKPYKCECGKLLSTPQPLLNI K*
6758	14809	A	7468	1255	2710	ARPSCPCSWSFSCCGVSPGA/LVTEAAIF YETQPSLWAESESLKPLANVTLTCCAR LETPDFQLKNGVAQEPVHLDSPAIAHQ FLLTGDTQGPLPLPLGLVHRMDPAEQAP WS*QGPKALFNSTPPTESLPAPWLSMAP VSWITPGPETTSRCRGVLRGVTFLLRRE GDHEFLEVPEAQEDVEATFPVHQPNYS CSYRTDGEALSEPSATVTIEELAAPPP VL\STMESPPRSCTLGKNTLTVCVAPLSG SGISSLRGGGERAAGNPGGSTSPDRIFH LNAVALGDGGHYTCRYRLHDNQNGWS GDSAPVELILSDETLPAPEFSPEPESGRAL RLRCLAPLEGARFALVREDRGGRVHRF QSPAGTEALFELHNISVADSANYSCVYV DLKPPFGGSAPSERLELHVDGELAGHOR GRARVQCPSGPPVFPLFPWASDGGALGL GSAPIAYPGGEQAIGGRGSGDAWNFLGF PTDASP
6759	14810	A	7469	3	1312	GEAGRGGSTGLGAGQGCATSQGLAARS SWGHRVGHQLGSRGPTRSSAQ*GAAA ADLQGAGRHSNDHNPPT*AA*G*NLPAE E*GGPRAGAPAHASCPTDPSAGEPGTGA GAARRWHQPGLCSPSGV*POASPGSSPR AQTQSPGAAQEHHEPRE*AAQAGERPA GGSEVGAGASGGPAAGTGDACGNPGPA AAGSPRGGQGSRAATGHTGCGAVQLPR PAPSGRG*KCPAAAAAQETEG*VRPTAA TLRLAGSGARRWCRPSASHHGPPDIPGG DSGGHPGSAPQP*AAAGPGCPQLPQEAG GSEPQA*RATGCLQGPGRCILGPDPEAP GLLPQHPRAGTGAGTAAGPGHDG*RA TF*ATGVRGPAP/EAGTSTKS*G*GSWQV QGTGPKWGLCLQPSPIQGPAATRPSPK GRAEQSSSASTEPSHPAPRKT
6760	14811	A	747	461	791	ESLQTGLTFTKSDEMDLLPHIGPCR*DG AVSGAPSSNSFPTSVAGSTRLAKERGDH HLRKQPRWEVHGAVRRRAVHRPFIFHLR KEAACCLFPPPTLLPSRQQTPLPSK

6761	14812	A	7470	1	1987	MWEPCGSQGGDT/GVFGCRDR*GG*GAA GCAGRPSGDRGQWPHACGGGGGRGHP TSTGAPAGHGEEAASEQRLLSGGPLRPP GPH*ARRHVGPAGRGLC*LGRREPQHR VPSRSAPAAPGRLPALPFLDEDKG*AEPR EAAPRRPRAAGHSPGHVSHCGEAPGGL DHLHLPQ/SPAGMGSEHDGRSGQC*PSR HTSP\TRLQSPPDTHPGGSSLPAPRPAL SCWARVFASLGDQPAFLGGHTGPPDAS GEPQHKH*PS/GPLSSSSFPGAPIQGRQRVT ESLPGTC*GMEWPTAALG*RGPRPVTAT PGTPGGAPTS\GFP\GCQAQKPEAGLVVA NGTMCCPAKHTWRSGPKIPTLISILPLLL LHGGAVSLGSPPGSALRPAPASLGPCV TDKSIPSLAQNTKYSPLDLP*ET**HLPECS RGWGSPLLVLHPLLGHILVSAHIPLPGYK ACPRPLNLLGRFGA\QGPRGSLSRSSRG */PGPAPSALGVSGSPSSHPPN/GLYAEAH RMGFLPDSKSKNGLISKCKLTFHPQTSK PPAPISP*SKTSGGRKNRLPGLHSQQSFG RMPPGMP*APSVYLLPLLSHPLPLRTAG KPSSLPQPRSPSLVSSHTRAQQLSLVSP*G QPCVPGHTSTRQGLPPLHSILPAELPQSS FANRGIKASLRIRK
6762	14813	A	7471	2	353	DRKEERLRSRSGAAATRSSGGKGVAE WDPLPCLDPELWDQFDNLKNHSLEKFII SAKERTIEIELSEYTKQLRNLKTCQPKRN WKEKEYIT*NSPSLPVNKMSDHARQH*V ITLGSIKLSSLS
6763	14814	A	7472	2	390	PLDPQVRKIEDKVNKSRS*KN/LGLEDL GTYSVIVTDADEDISASHTLTEELEKLLK KLSHEIKNPVIKLISGWNIDILERGEVRL WLEVQKLSAAELHLIFNNKEIFSSPNRK INFREKGLVEVIIH
6764	14815	A	7473	3	223	DAWVTSTNADKEFEKIQHPLMIKLSK* VYNMSYIYPLFKIHKGIYDKSLVNIILNVE KLKAFFLRTGTRE
6765	14816	A	7474	3	1033	CPLPFSL*YSTCGEKQPQMSWRASAASP GQSAPSSSAVGCWKASCKQYVWGTPSY SYTNRFRRTPHSPGVWKACISRAG*PA RKNSLICLAGKTGALKDT\SGKAPVFPL CHRHSDPGGGFHCAELGTNSPLGRLL KGLP*PAAVPCPPGAPHLPQRRPAGRPT *FPPAQSSPPQSVWSRRCRMPGPTGPG RWGPAAGSWPATSLASGCPSWEVCGAT NP*APRLSTALGSCCPSPEGKRRPNTPA TRPPCVAG*APPPGHSRGNNGLEKSSSF \PASCGR*QSGAGPSRLDFPSSPSRLHSVP PGPFRFTSHPVQVQASSVSEKGEKPLRSYD PRR
6766	14817	A	7475	63	389	KNQEQESEETLPNLFYKASITLIPKLDTS SSSSSFSSSSSSSP*KPITHRNIPSSSSSS SSHQIQYIGKIIHHDQVGCIPHELIKFN AA**EPSKNGDRRNT
6767	14818	A	7476	3	335	HASGKDRHTDQRNRIKNPETDT*IYSTF* QKC/RLI*WRKDSLWNKWC*SNWA\SPM KKIKLDLSSSSSSSSSSSSSV*NVKLL GNNVGGNLQYRGLRVHTVDVKAQHI
6768	14819	A	7477	50	378	LEAWAGLSQVQTPSKFLENPSQSYRLTV PLRKHVVRPKKQHEIRRLA*VGNLSDFT G*/HPGCIRGLRPGHLSRLMDLGLGLMV KSMERDQRLVERAQRDLQELLQALEK
6769	14820	A	7478	62	389	KRDPKRTFITPPVSGERQIRRGPTCKWG FLGLVGRGGPPEGEKSNLLWNPGPPLG PNIKKGPRLTTPSSSSSNFQREKFHPGGG APP*NPT/ILGRPGGPNKLGWGV

6770	14821	A	7479	18	373	RGEPPSPAPIGIFKSPKRGFPKTFPGGF LPKGKKKPGPIFPFGLETKEGGTPPNPF KK/ARVFLVFKPKAGSSSSSSSPNYKPIYL NNTDTKFFNNMLANRI*QCIKEVMQYDR TRG
6771	14822	A	748	40	317	LRVTAQWASHTLPDPVVGNGPSGWKEK DRDSEWGWRDLKSKTWVEVEAEGGLS GDTFQWLPQGSSQRPGLPLVNQAGVQ ETKGAGPL*SPAPLPPGSPEGAQASGCSP VGAIGMYPLTGPLPPPPQPRSWISGPSTPI LSLCPSPSTRSQGFPPQGLEVCVTPIELLP EVRCLKIRECFPSFL
6772	14823	A	7480	2	1288	FFFFFSCYAVNAAGNEGNDTALSFPERS QSRLCGFSQNTLCLLPAPTRSNFPGSCR RQPPGSLPALALAAGDSPGEAGPPGEGS RGIQHTFP*IPRPRRVQGSQSSPSPTSHQ QFINGEGQTS**QNLGLRTQEFECNPR RL*VVRFRSLFAFFPLFAFHSPSPFF*GN V*ARLQGGKMESLGAEGLHHRPRQGW RKTQKQAPSAYVGKNGNPAP/WFPPKV FRTGAAKP*GFPNPISPKP*RHSLDLAKG RGPDPARTGTQLQSLAFLWPSRELITPG CHVLIGLSRLRGALFGG*GTAKRLSHK GRQSGP*N*PGRHTAPLIPSAASGRVRV GLQRNEPLAQNPTRLRLSSPLPGGIKVE TVGI**GVGMR/DLGS*NEVSAFIGN*ESR GSGSSNRMVFLPLPNARESPPSRFETVN
6773	14824	A	7481	3	352	QFSIE*KKRKIFPTQA*DKQRLNVQYKI LLVTRKEGPNKGRGKPCS*IRKLNIVKTS IFPKLIDSYNKFPPNY/LSASLLELTSCILK LIWE/QNPFMKMQRARTVKTL SKKKNK VEK
6774	14825	A	7482	2	253	SMKKVERSKISILSFHIRKLEN/QLNPK*/R RRREIKIGAEINEIENRK*IEKINETKSYF WKISKPLAKLIKEKTQITNTRNRAY
6775	14826	A	7483	2	1114	WSHRDWICPASGFQMLNVGSGQILRK KLMTYAL*LLQLTVWRDSRLLCREGAP K*SL/SSLPESRRQSSEFEKAKTCQLFINA AVDSPAIDYHISLAQSALQICLTHPELQN EICCQLIKQTRRRQPQNQPGPLQGWQLL ALCVGLFLPHHPFLWLLRLHLKRNADSR TEFGKYAIYCQRCVERTQQNGDREARPS RMEILSTLLRNPYHHSPLPFSIPVHFMNGI YQVVGFDASTTVEEFLNTLNQDTGMRK PAQSGFALFTDDPSGRDLEHCLQGNKV KPSPFQEPSPTNSKEATLYKKSCLKKFN SGVFQNFNQSNLHDKKKKMQDFVKPIEF LIHNLTYTTFHIKERKGVSNNGDLSIRII RVDM
6776	14827	A	7484	4	252	GDVEY*SIYSLAPIRHWLRNGPRASTLW LFFFFFFFF/ETQSCSVTRLDCNGMISAH CHLRLPGSSDCPAS
6777	14828	A	7485	95	670	FLEGGWAHFFPPPKGSFPKPKEGFKTP PKRKKIFPSHPPLNLGPPDLLKGPP/HSS SSSSSPEVINIYCSPFREGHGRR*SKVSSW STEVENKPV*DKFPHTPSY/ATCPLPQGY RTAVFSYSPPK/HMQSLPTFQKACSPYS FSHSDQSPTLVAPFFFFCLMRSSDKLM NDVPAPVFLPSFKGNHACSSR
6778	14829	A	7486	2	338	ENGWCWIATYGRKTGFLSLTTCKS*LK RDLDLGTETMEILEENLGEVLLDIGLGK/ NFMKTPKADSTEIKINR*DLIKLKS*CTA KKS*T*/SNRQSTEWKKIFGNYASDRTS
6779	14830	A	7487	117	334	LYAHKFNNLDEMDQFLQRHNTPKLIQEE /HRLTVIK*IKSIVINLPKQKA*GPDGFSGE MYQLLKEEIIYNVF

6780	14831	A	7488	325	353	CILKDRCR*LYAHKFNNLDEMDQFLQRH NTPKLIQEETDLL/SIK*IKSIVNLPKQKA *GPDGFSGEMYQLLKEEIIYNVF*RTDVE G
6781	14832	A	7489	3	458	KSREITTLANNQCMATESVDHELGRCTN SVVKYELMRPSNKAPLLVLCEHRGRM VKHQCCPGCGYFCTAGNFMECQPESSIS HRFHKDCAS/QFNNASYCPHCGE\ESSK AKEVTISLKQTPRPWTPVPGQE*GSSLV GRADTTPGSGAR
6782	14833	A	749	2	333	QKRGKTLPDF*SDFG*QLNGRHTHFQ/HP VVGNPGSGWKEKETKGAGPLCYPPSHS KVWGRGATSSVSEGGSQRAGHLP/TSPA AQQGLECRNTRLPKVRAVAVRLCYPPL GG
6783	14834	A	7490	49	457	MHNPDGSASPTADPGSELQTLGQAARRP PPP/PRGTRRPPQDTPISPETPGCFSSRRPM PTREPPKTRGSRGHLHHTPPGPGPPLQGL APRGLKT/RRPPSPVAPAGTPQGGKDQED CV*G*VALPGPPGRQEAYWSHP
6784	14835	A	7491	1	816	MDEAQPQEALGASDWQTCRSTQCLQRC KARSQSDHFKGELGVSSPRVHPQAARRP PPP/PRGTRRPP/PGPAHQPGNP*AASPGG RCPPGSPQRLAAP/EGHLHHTPPGPGPP/P PAGTPQGGKDQEDCV*G*VALPGPPGRQE AYWSHP*GA*A*APPSARL*A*VPASEQ* EGTEPLCRSVPGPVRRVLGAPARGGVCT GKAQAAGGPAELPAPTPKEGGPSCSPG LEGV*DEANGSWLPGQAGSLPLEG*TE ASQSDSPEIR*PRRTRPSARKPLSCFSRRP MPTREPPKTRGSRGHLHHTPPGPGPPQP GPHKAKTKKIVFEDELLSQALLGAKKPI GAIPKGHKPRHPVPDYELKYPPVSSERE RSRYVAVFQDQYGEFLELQHEVGCAQA KLRQLEALLSSLPPQSQKEAQAARVW REFEMKRMDPGFLDKQARCHYLGKLR HLKTQIQKFDDQGDSEGSVYF
6785	14836	A	7492	27	445	MHNPDGSASPTADPGSELQTLGQAARRP PPP/PRGTRRPPQDPPISPETLSCFSRRPM PTREPPKTRGSRGHLHHTPPGPGPPVSLD REGVPRPGL*AKDLAPAV*GTPVFPTPRF NSRPRFPVAAAGTGAPRPQNRPP
6786	14837	A	7493	1	368	FQQNLTLSAHCNLCRKF*FSCLSWDDR HVPTCLDNFLYFW*RWGGFYHVDQAGL KLLDSSTPSAS/SFPKCWDYRHEPCTWP* KYSFLTEH*LLPVY*K*IAKPFQPKQIVKT FS*GCKNI
6787	14838	A	7494	10	504	EGDKGTPVLRGFSSVSGSWSRRMPFLL LTCLFITGTSVSPVALDPCSAYISLNEPW EGTIDHQLDESQGPPLCDNHVNGGAWYH FHGHGRGDAMPYLSFFTRKPLWEPTAPV WLNGSHPL*GDGIVQRQACASFNGNCL WNTTVEVKACPGGYVYRLTKPSV
6788	14839	A	7495	84	250	NRIENPEIKLNTDSQLILPR*FNWER/DSL FNKCWWNWIFKCKTMKLDPFPIPDKN
6789	14840	A	7496	63	743	SSCLLAAFRGPAHASHC*P*SPAHSSKRPI HAQLFPLVASPGPEIPQFGFAR*SCCLPVP SPGPVLPSPWVYSPIS*LKTTYFGSAPAQ HLAAVGLKLPQVKRSRPRSCCPGAFTG PATA*RWLPQAQVLPSPSLPRPSPCLTVA FPVHVTACYPTALTDQTLPSHWT*DKL IRLPASPGQSSCLTLASIGPGAESAMVCL GPSHAFLKTQATIWPDTFCFGPM
6790	14841	A	7497	340	368	VPTICQVMS*HFHPSSSSSSSSSSVINYY*/ FGLLLC/QVAHFYNSIDQMIQSQRPM LQSALAFEQIIKVNGLLI

6791	14842	A	7498	2	826	LVKKTCEVPLQAGRLYLDDHHQSKPFLKL HSKTHV*RCPLGIQTTPVTLRR/AFNLR PVLSPQQRVPVEARPRKCETHTESFKNSE ILKPHRAKPYACNECGKAFSYCSSLSQH QKSHTGEKPYECSECGKAFSQESSLIQH QRIHTGEKPYKCSECGKSLSARNANLTK HQANPHREEEALTCSECEKAFFS*LLSVL VQHQRHTGEKPYECSDCGKAFRHSANL TNHQRTHTGEKPYKCSECGKAFSYCAAF IQHQRIHTGEKPYRCAACGKA
6792	14843	A	7499	64	372	KLSTFFHRESVNEIKKKTIDWENICNTYE* KPVITYK*FLQIN*KEIN/DQIEKWTKATN RQIAEEIEIQVKNKHIKRYCSASFRRKKQIKT KKRCHFSITGKNYKE
6793	14844	A	75	3	298	
6794	14845	A	750	444	999	HSLTATALTLGSLVFLHSSPCCAAGLWA SDLPSVSLPLTQRRWLPFPKP*KWLG* QRGPAPLVSCTPAPWFTQRRMKDGSIS HAPSTLRHPGVGGRSPRPLAWSPVGA GMYPLTGPLPPPQPRSWISGPSTPILSLC PSPSTRSQGFPPQGLEVCVTPIELLPEVRL KIKECLSLVSVKK
6795	14846	A	7500	2	414	RQGL/DSVTQARVQWSDQ/GSLQPRSPG LERSHLSLLSSW*FEISFRTLQQLVITGN ILGHQKITGTNHR*FMLYSSVCLFFEMES HSVVQAGVQWHDLSLQPPPLGFKRFSC LSLWSSWDYRHPSSCLAYFCIFGST
6796	14847	A	7501	18	73	SYPGAASVPAPWSPGASPLRSSPELHLRL SSSASSLALAKNALSRAASPAQ/ALPSP SPLLWPLTSSPGRQASPVAPPSASNGT*W GTC*PEAILGLQSAQPPGAPPPH
6797	14848	A	7502	3	363	KTASPVQVKFCAGVALPNLQORPLREK AQQCI*PLLMAFRNTGRIPCFSCNIPVLP GQKHGTEDYWFVQDLRATRQIFKAIYLV IPDAYTLFMTLTSELYW/WSVLNLKDAFI CIPLSPES
6798	14849	A	7503	47	231	NCSSVFCFPGSQRVGSILGKSW*GWVVA TGVWLLNPLKAVGQEEYSLKMEGRPE VTCRHL
6799	14850	A	7504	1	3099	MGSCSGGERLGTSPKYSMGKWEFVAKE QCGVPCPVQLGTLRNDLSLEAQLHEYVK QGNVVKVKILKKGSQPHSPRVHSLFTE GTLDPQAPDCLMARETQNQDAPCPAPF MAEEASSPSTGQPSLCSFEINEIYSGCLIL EDDIEPPGAASSLEADGPNQVDELKSM EEELDKMEREACCFGSEDESSKAETAY SFDDWDWQNGSLSSLPESTREAKSNL NNMSTTEYLISKCVLDLKMIMQTIMHEN DDR
6800	14851	A	7505	2	707	LTHH*IIHAGEKPYKCEKCGKAFNQFSNL TKHKITHTEKSYKCEECGKAFIQSSTPS KQINDGEKPYNCEECGKAFNQASNL*/ HKIHTGEKPYKCEECGKAFNQSSIFTKH KKIHTGEKPYDCEKYGKGFN*SSVLNTH TIILTAEKLYKPVRCDSASDNISNFSNHK RNHIGES*KGECNKVFKWLSHLIIGNI HIGKISYK*EQCGKVFN*YTLHRKSFIFE KNCRN
6801	14852	A	7506	1	681	IVTADQLLGMGWAAIRNQTMLNDEVI EQLWKCLDAWDKIQDDDKLPCF*QP SDGAQT*NRIPHNCPIFKDAAEKSY*IA RANDLL*NLMAEYEQVNPRL/CQVAICPIK GKIPPGGDVLTYSYKVEGVRGTLRTAM VMAQAMVSIRMPGQFPKCFCLCSQSGH SKRNCPWHTDRCSFQHQPKFFQQQAP LSTICPRCQKGNHWWAQCHSKFDIDGNP LRSLP

6802	14853	A	7507	2	342	STVKGPCSMCRTIHHVPHIMGFIFGVQG WHDM/C/KSINVNHSVNRMKKNHMI/S NDAEKAFDKT**SVSIKT/L/NKLEVKG MLYIIKVAYDRLPARIADD*RAESFPLRL GKR
6803	14854	A	7508	1	358	VFQSFHKHRNQKVPEPPPLSKT/AKNLFA QLAENIASCLDDSSCYGYKKANIRDQWP *EAKELMPQDNFN*LFPQTDATRSSIW/L LKTSIIKKYHVTHYEKALKTHEKELTCLR HDRVGTC
6804	14855	A	7509	2	681	
6805	14856	A	751	172	431	IGRPTKQGLGQWTAVWERMERTNKSRA WPNACEGPGAVGNYIAWASGLP*MLKT RAARTWVQAGVRESAQGFLNKNRRILE MGLSR
6806	14857	A	7510	670	1466	KKIRPFFQIFDGFISNVLVFAQSGFPCLP VAPSVTS**LKAAVTAGLEVPSDVSDRA FEWLSAFPLDSPYSIHHPRRIQVFLKRE GSSRRWVLEPITADSDPAYSSKVLLSSP GLEELYRCMLFVDDMAEPRETPEHPLK QIKFLLGRKEEEAVLVGGEWSPSLDGLD PQADPAG/SWVRTAIRLCAGPELGIDLS AVTKWWRFAEVSVPAAAGDPPGGLQTVV VYLPGLDHHAYFGRKWEFGPAKQKA ARGSSPNPGRHKG
6807	14858	A	7511	155	359	VNSSHRDQWNRIGGP/ETNAYIYGQLVF GKEAKFI*WRKNSLFNKWCWET/WISLQ KRMELDSYLTAYVKI
6808	14859	A	7512	2	495	RKDILYSWARRFNIVKMLMLPKAIYRF TVIPIFLQND*TAFFAEMEKPVLFKI*SY RRP*IAKQS*SSSSSSSSSSSSSSSSSSSS SSSSSPVNSSHRDQWNRIGGP/ETNAYIY GQLVFDKEAKFI*WRKNSLFNKWCWET GFPYKKE*SVDSYLTAYVKI
6809	14860	A	7513	155	359	VNSSHRDQWNRIGGP/ETNAYIYGQLVF GKEAKFI*WRKNSLFNKWCWET/WISLQ KRMELDSYLTAYVKI
6810	14861	A	7514	2	495	RKDILYSWARRFNIVKMLMLPKAIYRF TVIPIFLQND*TAFFAEMEKPVLFKI*SY RRP*IAKQS*SSSSSSSSSSSSSSSSSSSS SSSSSPVNSSHRDQWNRIGGP/ETNAYIY GQLVFDKEAKFI*WRKNSLFNKWCWET GFPYKKE*SVDSYLTAYVKI
6811	14862	A	7515	1	399	NVLIWEDCIAGQAEVLHDSYGIIDWSPK GMFSMNCTSQSCPWPHYVQLV*TERSD SRNDKKYKSSYYLETWQYSGPQPQMI WPAVGAKHKDLWKLLIAFDKIKIWEKG YTMPSQYNPNYILELVENNTIW
6812	14863	A	7516	10	225	YCNTIIVGDFNTPLSGMDRSSR*KT/NKE TSELNYTVDQSRSLTDIYRTFHPNNLMIHL KELEKQGQTKSNIN
6813	14864	A	7517	37	348	WKMGLPGRPQLPQLSQEKILSLNSPNV FSSSPLK***NILPKKKRPDCFTHKFYQTF KEEIIPLKTHQEFEKKEILLKSFYEGSV V*AAKLNADINKKTTH
6814	14865	A	7518	3	353	CRLGGLKGRSREQGAVIREGEDTLG/SET EAGRPAGSLRQQRRGRPWLNPVPGKH GVPTGEEHWAGEPAGWGGSVSGQAG*A ESRLSSSGHSGQKGGAVMLLAADRRRG QRRRGSG
6815	14866	A	7519	54	284	NHKTPEENIGEKLVDIGL/NNDFLDMTPK AQAMKAKVDRWYGIKL*NLCTSKETIN RI/NNRQPMELKKLMAHNSDKR
6816	14867	A	752	253	428	QASGVSDLQ*KLCAC*AQSQDLRGGGFR EARKTST*QPGFLLFCLLYSANKLQESV TFKDAIDFSWEEGIQAESAQRMTVYGE VMVENYQEPGFLGKYLFTQTRGGLP

6817	14868	A	7520	29	261	NHKTPEENIGEKLVDIGL/NNDFLDMPK AQAMKAKVDRWYGIKL*NLCTSKETIN RI/NNRQPMELKKLMANHISDKR
6818	14869	A	7521	5	2088	LSSPSQGRGADSA/PGEFSGTQLPPQGGE LVPQH LAQPHAVPAA/EVGPAWWPGAG P*TSPSGRGRPLCPPAGPPLPLPAAGPG ISHGQPPFMLLDGLVGP PGSGASGLPG SSALPRPRGEGVTPGIRGEGLRHTGA/G APSHSHSTCPSRRWQAGCPPTLTAPPPG WATSPPPESRCRVSGTSR*A*NPGHAA ASSGRWDRGPGAAAGPRPG*AHPA*GS GASGSSPGPEGGRARGT*PCSTEPSPGH* STGSPSPCAGGPRGRLLPLPGPDQGRW APTSGIPLRTG/PKLQPTTSCPGR/KLAEG EAPGLMGVQVRQCEAQHTQRPVWLVV LQEGQDAVCVELEPVRVPAGPRGAADG RGCHRRQA/P*RAGPGRRLCSCCTAGAA GSFPPAPRSQGQGLLGLAPGTAAEQAA HRAEPPRCKMPA*/PGPCVSTTCPCVSAS ELGTPGSEPLAGR WREAGSSQAVGLAA/ GGGGC*DQRTAGFGS*GAGKGLRGPPG LVTLSAVGRCASEPGGASGAAGRGRS GSPREPRVSGASRSPCG*AGCRRASSA GCRPRPGRA/GSAGEKADTYSCCRAASIG RPERPSRPGARS*TPVRVYTA/GMVGGQ GLATPGSPCCCP/GPPGGRPRSRPE/SFPR ADPSGYRGLPADRHWSKGP*GPALPGPG RSQAWALLGPQHPRSPAPAGAGRGRAG HRAR
6819	14870	A	7522	45	301	AGHHHWRKGPEAPRHEMCPGSSKNQGL VQGLAGGWGTKGKILKGSSTSPGEPGS GQIHLKKAGTCCGGSSKDRGVRNYSGR LLRR
6820	14871	A	7523	453	704	AGHHHWRKGPEAPRHEMCPGSRSGSEG ATCFARGR*RPPGNSLNVSRMGTRSSYS CRRHSPAFLSWGKGRCHLCNKAHLLAG A
6821	14872	A	7524	3	543	TCCIQAAGTGGSGAPGLASVVGGAAPL WSSF*NSLP*QIRFALVPLPGCRAPGTFPA PLYSQWPFPGPQRWARSLARGEVG LAPHPQPPTWPGRHGEQSPRRHHGVGH HHQHVMALGADMRRGLAAVAALVAS* AGRVLGWCGRPARRAAQLGQEGAQGT VLALNGLFFPSRRHGC
6822	14873	A	7525	218	533	AARRAGRPHHPKTRPAQLATSAATAASP RR*GRP WGRGLGPAWRPGGRGAALGA QRCGHGVRAVPVARAELGAAGFGGAA GPGAARGQCPALLPGRVEPRAARGVRT TPRPGQLSSQQAQPQRRARAAYPRREP* HADDDDLLHGADRSSRFGEVEHPVQGH TANPSDGGPVQHQHGLPHRYHLHLV *HSRPSGPPGATG
6823	14874	A	7526	3	1185	GPRR*GRP WGRGLGPAWRPGGRGAALG AQRCGHGVRAVPVARAELGAAGFGGA AGPGAARGQCPALLPGRVEPRAARGVR TTPRPGQLSSQQAQPQRRARAAYPRREP *HADDDDLLHGAGGVSVPRGAPARWA AGGVGRGRRRPLLPWPGCERSFSSSL*I* HSQICFF*SSLEQCGEWEGVYGDPDSDGG PVQQHQGH/PASQPLPEWKVAEVTDGA RSTEDTSWGKGAGGSS*EGGPGPPGPP GAGGLPGHNGLDGQPGQGPKEKGAN GKRGMGATG*L*RYGWHLGASFALL *AGHHHWRKGPEAPRHEMCPGSKGSFR ENGHTPSKPAQSSEGQ*LPHSPYQSGRW QKLLMGQGVQRTTHHGAREQVAVPRKV DLDHQDLREPAGCQDTTDWMDSLVLR AQKEKKEQMEKEEKWGLQDNYEDMAG ISEELPLPCYEQAITTGEKAQKHQGTCA OCARAASEKCTURPSOLNROKASNNV

						QGARAASEKTGTHRPSQLNPQKASNYH WNYTAAMDRSYRIIIHEHRCRIMMPIG LSWEVLQKCDSVLRPRQWA
6824	14875	C	7527	35	217	MXDSRGRXPARTYRESPGPXXRMXGR SREIARWPRRRPLAPLLHRLLPSPRPGIC GGAA*
6825	14876	A	7528	2	342	RALPPPKDPSLLSSIGSYRVPAPESVEGPL /SPWERKQGERPLSCMS/GLPQLRVGGV RG**EPQGLPDGDPAHTRCGAEPSSLDD SLPQDGVQDAAAASFLHTPSQTPCVQRE
6826	14877	A	7529	2	440	PRVRPRVRQSSHLSWRCRVPPPPPTMCL SAHPAPGPDPGTSCESHVRVPMPTIAQWG N*V*RGEITCLKSQEIGKS*GHGASCPMT GELKCPHCWG*TGPHQLPG/MSHMFVCI LRGLAGSPARTAARGFLEVAAFFKGTYPE RKPLM
6827	14878	A	753	963	1497	NTALSNEEILVMALVVISFLSLTFFQLME GTRLNKLWGFIPRTL*FSE*TLSSIKAKL LTILTPSLKFNREVKNVCHFEVWFWSY HNNLIKMPFISMFTPLNKMKAFTFICK MTVNINNMHQSTIYAKGEEHLMGCYVN CKLRTACFMAFAVKKKLLAFNMYFKIY SCLGENF
6828	14879	A	7530	3	471	RALAAAERPLAPLLHRLLPSPRPGICGGA A*PWERKQGERPFPVSQYLPASAC/GASP PG/PLGTGRGHGADDAPRRTS*ISEVGSV SVRDPG*IEQSDGRLPIGHSRWDERGLR GLGFVTGK/PWIKGGAILPVGPSKVVGGLG YTGRGAGLARSLOQY
6829	14880	A	7531	2	1021	FFFFFSCETTIENTLIFFSGEVSNLILPIPVGH K*GL*GGVKEEGCGCVLGLRPAVGSPAG MAQPSAPGVQAGSSILEEGLEVLSQPR PSRGSQGPVSPPSWKVLQQPVRRTPTPH ASWGKPTHASSFVGGLGAQGGKRMPLG GPGCRPAPGLGAHLYVVCPEFSAPIRGL RSGMVPLKKAATS*DTSGSSPGLGEPASP QLHLFN*SLRGASSVPLSTASPPPEPGLR TQALGRY*ETGKWPFTGLLPLRLSGPST DSGAGTR*EPMEERSEGLG/ERPARDPP GSVPTCGWRGRGSPGTCG/LPGQRPLGR ALRAAKTRPGTCRATDRGVPPGLPRLCR
6830	14881	A	7532	40	403	QWHRLAACSNLASAVSFRIFLYYGERRP SGGARPMILTSPSLTAWINPLSQLL*YL AAEQQLHRGPRTAPVSGAE*RWTFI/ IARTHCLRRGQGRQPPVSGATGAPSFPL QQPMPRR
6831	14882	C	7533	182	289	
6832	14883	C	7534	50	223	MEQLCTKVRRFKITTLALILXXXXXXX XXXXXXXXXXXXXXXXXLFSLYEWYPCH LK*
6833	14884	A	7535	3	398	SNLASAVSFRIFLYYGERRPSGGARPLLT SPSPTAWINPLSQLL*YLAAEQQLHR GPPRTAPVSGAE*RWTFI/IAHCLRR GQGRQPPVSGATGAPSFPLQQPMPRFT

						PGASSSHQEATKSSTREF
6834	14885	A	7536	287	568	CLRDGSPEPSCGLHCHCPACQ*PTPHPHY KHRPAGESIPGNTPMASRKR PASPTSRL RAPPALILSFL LCKMGTLP HASRG CWKE RSEIVLK
6835	14886	A	7537	574	1266	SIPCPSSSFSTWLQSSRNFTEDILASVLISA STQSAQSRSPQNQNLCKGGSQAAPPASS HPISSHGWGLCLDDPPAKDIIDFPLVLP PYAVSHQCRLQYGAYS AFCEDMDGDSS LISPWAKYPKQRPQGQVFIRVPKKHMQK GSACPLWPVRGKSLPVKMHNPGLAGR WKSS*STWT/QS/RSCGLHCHCPACQ*PT PGPHHKHRPAGESIPGTTNFCFEKEACV PYFM
6836	14887	A	7538	1	785	NRQLSCGTALSTTGGIYIGERSVRVWGH RFHCLGNESLLDNCQMTVLGAPPCIHGN TVSVICTGSLTQPLFPCLANVSDPYLSAV PEGSALICLEDKRLRLVDGDSRCAGRVEI YHDFWGTICDDGWDLSDAHVVCQKL GCGVAFNATVSAHFEGSGPIWLDLNL CTGMESHLWQCPSRGWGQHDCRHKED AGVICKFTAFRLYSETETESCAGRIEVF YNGTWGSGVGRNITTAIA/GLCCR\HLGC GGRNGC*PPCIHGNTVSVICTGSLTQPLF PCLANVSDPYLSAVPEGSALICLEDKRLR LVDGDSRCAGRVEIYHDFWGTICDDG WDLSDAHVVCQKL GCGVAFNATVSAHF GEGSGPIWLDLNLCTGMESHLWQCPSR GWGQHDCRHKEDAGVICKFTAFRLYS ETETESCAGRIEVFYNGTWGSGVGRNITT AIARIVLQATLAVGEEMDANPSPL
6837	14888	A	7539	1	1113	
6838	14889	A	754	1	363	WRESPHSARPRLEPQCYDLSSLQPPGLK* CSHISLPSSRDYSCCATMPS*IFCVFFGVE MRFHVAKAGLKFPGSSNPPASGIPKCW DYRCILGQFSSFEAKPRMLIFTLFIICSGH VMMS
6839	14890	A	7540	1	214	VAFFKSAGASVQEKQAQLQEQVKEQRV CCQRLAHPVASAQKEPEAARGPGAP/WA WGRV*QLYGPPEGEGRP
6840	14891	A	7541	3	141	
6841	14892	A	7542	39	210	
6842	14893	A	7543	72	353	QRCPPGGHIYSHKFS PND SVLP GTTV CES P QPNGPGFDPTVWQWGRPIYPHRSALRL QS*RQSGSP*VCLAGSLLCCPWRLGHG LCQAHPGQ
6843	14894	A	7544	5	726	AAILYSGRLSSQPVVESIHPTYDTSTS GTVKIPGAEGLRVEFDRQCNTERRHDPL TVMDGVNRIVSVRSGREWS DWSEL RIP GDELKWKFISDGSVNGWGWRTVYPIM PAAGPKELSDRCVLS CP SMDLVTCLLD FRLNLASNRSIVPRLAASLAACAQLSAL AASHRMWALQRLRKLTTTEFGQSINIR LLGENDGETRALSFTGSALAALVKGLPE ALQRQFEYEDPIVKGA
6844	14895	A	7545	441	1009	GLSHGRNTGPLTTSQASTSPRGNNPRAC VARTRVGVPATELLWMEEMRCVQLFCY SKARSQCSHQG*DV*VFYQPACWVSDT WHYLQPLTDSG*YA*KLS/D*VMSGPILA TGPCTSHLA*LLDSEPLERSVSSFCCKWDV RLLGKTS LCCV GLEALSSSEIFNCLLGVF VWNLASCLCGSACCRVFLRDT
6845	14896	A	7546	59	378	

6846	14897	A	7547	31	302	KGRRVLWWGDKNHERSWHKGVMGQR VQDRQKRKLCQLMGKKRSQRA*ILSGTE HLHVHSHLLACQQQVSTGRALHLLP*RI WRARAKNEQ
6847	14898	A	7548	1171	1731	SPRWSAPRSPSGAPSDASCDGLVPMNGR KMACWPVDIPKTDWSPNPWQEKREIVS SEDAVTPSAVTPSAPSASARPFIPVTDDL GAASIIAETMTKTKEDVESQNKAAAGPEP QALDEFTSLIADDTRVVVDLLKLSVCS RAGDRGRDVLSAVLSGMGTAYPQVAD MLLELCVTEL*NPRSRT*CFSCRACDEE VSLALECWEPEELPRTQSPALTTQRAQN TMNKLNFHNRVMQDRRSVCIFLPNDESL NII/DKCLVFSWGDGDFGKLGRGGSEGC NIPQNIERLNGQGVQCIECGAQFSLATK SGVVWTWGKGDYFRLGHGSDVHVRKP QVVEGLRGKKIVHVAVGALHCLAVTDS GQVYAWGDNDHGQQGNGTTTVNRKPT LVQGL*GQKITRVACGSSHVAWTTVDV ATPSVHEPVLFTARDPLGASYLGVPD ADSSAASNKISGASNSKPNRPSLAKILLS LDGNLAKQQALSHILTALQIMYATDAAV GALMPAAMIAPVECPSSFSSGAPSDASA MG*SP*MGEK\CLLAC*YSENRL\SPNPW QEKREIVSSEDAVTPSAVTPSAPSASAR FIPVTDDLGAASIIAETMTKTKEDVESQN KAAGPEPQALDEFTSLIADDTRVVVDL LKLSVCSRAGDRGRDVLSAVLSGMGT YPQVADMLLELCVTELEDVATDSQSGR
6848	14899	A	7549	2249	5398	KCHLRAGRCRDVTAIFWLQSSFMQLEE KADLRKSITFYQNQGGRAKDAALGGGH HQAGAQQGDEGEAAGAAADGVAAYSN YNNGHRKFLATAQNPADPEPGGAPAPQ ELGAAGKHGGLPNLRLSFKLALIRDMAI LPFQWNLISFNAVLGLVFSWGDGDFGK LGRGGSEGCNIPQNIERLNGQGVQCIECG AQFLLALTKSGVVWTWGKGDYFRLGHR SDVHVRKPQVVEGLRGKKIVHVAVGAQ HCLAVMDS
6849	14900	A	755	1	433	FFKNFYRINRDSYYKAAKFFPVLCISSFH SYCSTLPQAPLPQAWLNLRRSSGVFLLLI SIVRADVPTPFQILGLILEAPPSQSYFLPFS SMDGLMLHPNRKVGQLTFSRPGEVAHT CNPSTLGGRGGRIA*GOEFETSLGLIS
6850	14901	A	7550	1	609	AAATTTTKLAAARQPLPGGGGESAVGA GAGREVFYILFATASAKRGGGRKRTPG AQSSGR/AVLPSLPGPPGRFLAGVC*GSGG PSPFSSPPPNHSG/Q/PGAGGEPGNRGPKM GVLAYSLSHL*VPCGVSRNTLPAGDGNPV P*SPFLSFTWSP/VP*PWG/ANGPWWADP PPSTHTVP*PSGPPGASGAGPPPSWPRPA KGFAPPRGL
6851	14902	B	7551	222	360	XAVLALRPWDVEAEQFLEVSFLLFFFLFS DPRPRDRLRLLERLREPT*
6852	14903	A	7552	1	601	RDTSRNCASASTSQCRKASTAPGAEG/DGP QASGRGGAVTTRGSRASSGRGRSVMP CSRA*DVRARRRRSQARGSSGKLHLCSG KPLRKRSRSPSRVPAPGQSRGRRFTSSPP GFPASPSPCITERSRQKARRRTRSSSSSS SSSSSSSSSSSSSSSDGRKKRGKYKDK RRKKKKKKRKLKKKGKEKAHSRQSIIR
6853	14904	A	7553	42	384	LKSAALSHGGAKQAGDPNLHPLPLRRD WAGPETNPRGKGHQHPSGFPLAP*NLPR LGRQSSSTGLGQRPSPGKQPSHLEGQA VPSGRLAGEESTQDGRGTSQTDAGGWM AGM

6854	14905	A	7554	1	713	AKGAGLEARGAMAHVGSRRKRSRSRSRS RGRGSEKRKKKSRKDTSRNCSASTSQGR KASTAPGAEASPCITERSKQKARRRTR SSSSSSSSSSSSSSSSSSSSSSSDGRKKR GKYKDKRRKKKKKEEESLKEEGQRKKA EAQ/RGRASSASVVD*DGHAQAY*REM /DEGPKRKS*PKNDTERSTSQTQRGTAD GHCQMOSDGYASREGPPHGGQPDGRQL AAQPGQVSGCQWEA
6855	14906	A	7555	2	642	HALTTAFNIVLEVLVSAVRQEKEIKSVI GKKEIKLSLFTDDMIVYVEYPKIDKNA/L LEIISNFTRVVGYKVNTQNSVTRVYHQ *AS/EYLKLLKILFALEPPKVEYLGSLTK HAQDLYEKNCKTLIKEIKELNKWREILC G*KYSVFKMSVLLNFVYRFNAVPIQIPVS CFVGI/EQT/SLKFIWKAKRPRIANSILIEN NKVTGLTLPFFKA
6856	14907	A	7556	3	577	TSNECGKTFRHNSVLVIHKTHTGEKPYK CNECGKVFNRAKAKLARHRIHTGKKH* KYEEDKVYIVNQVLKDRRIHTGEKAY KCKSCDKNLGRDShLAQQTRSHTEKGP YKCTECGKAFSGQSTLIHHQAIHGIGKLY *CNDYHKVFSNTTTVSNHWRIHNERF*K CNKCGKFFRHCSYLAHVH*THAGE
6857	14908	A	7557	286	336	GL**NTTS/PKISTEYISP*AKPPVMRGD SVLYHSDYDEEWNRVWANVGKSLSCS IAMVDKLIERDGGSEASGGINDGEKERSL TDAIPSLPREDWYEQLYPFILTLKECV
6858	14909	A	7558	2	246	RPLKHTLVTCDKGGL*FEPFVSG/PPRC A*GDGTPKPEVPFIFTATFYHGLPTAYGC MLTST*RKVEETELDDFYDGNRRGR
6859	14910	A	7559	3	348	GWRLVRPLFMGHRQPVISGLQPEQLHL KL*FLCSGVSDCASFPV/QSPEPKVVFAK EQLARRKLQAEAGASATLSCEVAQAQT EVTWYKDGKKLSSSKVCMEATGCTRR LVVQQ
6860	14911	A	756	362	567	PAPTPGTWDRHKSPLANFLYFY*ROG FHHIGLAGLELLASR*STHLGLPKCWDY RCEQHVOPENIF
6861	14912	A	7560	16	220	HREMKTGNDLKILQKVNKLWHLTYTAY *KRAIKKSKLLVHTK/TWVNLKGVVLSE *SQSQRVKYWSTRP
6862	14913	A	7561	204	868	KGNQVSHEYSWKFRTLSLS*KQF*VLKR/ YYRRAVKLVNMSNIAEHGPFMKTGECL RCMFWNNGCIHFAMSKHNLGIFYFKK ALQEE*QCLCTAPVQVALIQVKNFQGRP MCTLLNPIRGYELLYNCGISLLHIGRPL AAFECLIEAVHVYHANPRLWRLAECCI AANKGTSEQETKGLPSKKGIVQSIGQG YHRKIVLASQSIQNTVYNDGQSSAIP
6863	14914	A	7562	1	1047	MVSISWPRDLPASASQSAGITGLIGALVL SVGIYAEVER/HEI*NP*KCLPGSSHHHP PGRRHVHGLLHWCAGVPP*QPPELLASL RLSRGYGLVLSWLEPRYEKMISGMYLG EIVRNILIDFTKKGFLFRGQISETLKTGRIF ETKFLSQIESDRLALLQVRAILQQLGNS TCDDSLVKTVCGVVSRRAAQLCGAGM AAVVDKIRENRGLDRLNVTGVVDGTLTY KLHPHFSRIMHQTVKELSPKCNVSFLLSE DGSGKGAALITAVGVRLRTEASS
6864	14915	A	7563	77	2246	
6865	14916	A	7564	1	475	HIKNMTFIYFSSFICFPWRSL/DSVAQA GVQWRDLGSLQAPPGFTPFCLSL/LQS SWDLQAPRHRARLIFYFLVEMGFITL ARMVSIS*PRDPPALASQSAGITGVSHRA RPETYNFCSFIISSLPVEPEARKMTKNSD IGEWINLGTCLIV

6866	14917	A	7565	3	362	SAIIV*DINTPIMGGTTRQMINKEIEDVNS AINQEDLLVYRTLHTAAAEFTFFSSLHE VSSSDMMLGH*TSLNKF*SIEIIQNISDH KGIKFEINNKEI*KIHKYVEISSTLLSKQG
6867	14918	A	7566	188	1055	VIKAAEGDSGSAWVLDEADPTGGPGLG CRGTKYLLRSGAGGLSD/GGPCGPGTDL ALSPKPPGLHGPPSPALAG*DLSRLLP AHSENWPGAAGGGSHRA*VGS/ADQAD NDTEGNNKDPGRPQAQPSRCRSLGPATG RSGWPYGGP*PTWGGQPVSTPREGPAGV RIEAKGKS/NVGGTGGMAPSPSRTCNLLS LPKLSGVV*EAWNPGRADVHIMHAVGLI KTSHEWLDPPADSQAGSCGASGQEPQPA ASGSAAWRRCSQGGGLRLRHQQQEEGP SSQHVGVGCVPCGG
6868	14919	A	7567	2	380	AR*LFSRVNHMVGHKLSLNR*F*KIDIIQSI FYDHNSMKLENNNNKRTGKFINLW/RII* IIYL*TTHK*KKKITREIEKYLEMTENRNK TYRNLWDAKVVPKGVEFIAIGASL*KG GKSPIQVS
6869	14920	A	7568	1	370	GTSAWPQYKLDNDSK*PENGTFEFSILQ VLDNSCHKMGKWSEVPDVQAFFSHWS LPSLCSQC/GLIPNLSSFSFWSFG/PPPQV PSP/TEFFSMDSSDLPSPQAAPRQAEPG PNSHLASAPPY
6870	14921	A	7569	3	369	HEVKTMKILEENLGEYLLDLVGKDFINR T/PETIS*NKIYKFNFIKIKNFCSLKDILKEI NRIDWEKIVTKHSDKGLVSRIKKFHDV /YKMRTOFFPPKDKDLGRYFTNKET*MV ASGHLKMC
6871	14922	A	757	204	389	DMGYDVTRFQGDVDEDLICPICRGVLEE PVQPCQTKVICILGQV*GEAHDYHAPYC EHAF
6872	14923	A	7570	1	2722	MGSAPVPSQACLEALLLIVPWGACGVSQE EESPAEGSKDEPGEQVELKEEAAPVE DGSQPPPEPKGDATPEGEKATEKENG KSEAQKPSEKAEAGPEGVAPAPEGEKKQ KPARKRRMVEEIGVELVVLDPDLPEDK LAQSVQKLQDLTLRDLEKQEREKAANSL EAFIFETQDKLYQPEYQEVSTEEQREEIS GKLSAASWLEDEGVGATTVMLEKLA ELRKLCQGLFFRVEERKKWPERLSALDN LLNHSSMFLKGARLIPEMDQIFTEVEMT TLEKVINETWAWKNATLAEQAKLPATE KPVLLSKDIEAKMMALDREVQYLLNKA KFTKPRPRPKDKNGTRAEPPLNASANRA FPSPLTPWADQNVLSTVSPYPKILGKGET MVVPRVFGRMVGSREAVAQAMVLEM FREEDYYNDDVLDQMGASILGVEGPRR HPDEPPEDEVFELFPMFMGGLLSAHNRA VLAQLGCPIKNLDALENAQAIKKLGLK GRQVLPPSELLDHLFFHYEQNRFSAE VLSSLRQLNLAGVRMTPVKCTVVA AVL GSGRHALDEVNLASCQLDPAGLRTLLPV FLRARKLGLQLNSLGPEACKDLRDLLH DQCQITTLRLSNNPLTAAGVAVLMEGLA GNTSVTHLSLLHTGLGDEGLELLAAQLD RNRQLQELNVAYNGAGDTAALALARAA REHPSLELLHEVQRNLNSWDRARVQRH LE/HP/SCGIWKIAGVPLILGARPSCEW RARAPSKSPLRRCPNSHPEPASVM*PA*T NLSIPWCCVASSLLRRCGSQSL*PSS/HPA AVSMETYHVTLTLPTQRGEEQVELSTIE ELIK/VP*SAPSQP*WSTSGLALPQEA WY PVRSH*CPRLSQSPDLTGYSYGSFGHL TWEMSWKAPRNCV
6873	14924	A	7571	2	394	

6874	14925	A	7572	1776	3257	TNLSIPWCCVASSLLRRCGSQSL*PSSPPL PSPWRPTTSL*HCHQHREVKNKWSSPQL RN*SRMP*SAPSQP*WSTSGLALPQEA YP/REKPPMMPQAQPAIPRPNRLFLRQLR ASH/CGK/WSWKAPRNCV*LNSTTPCS RSGPSPRGLDPRWSGQKTWHLLGSQA* ATTPGPLMEL*/ELFNPDACGRRVQTVVL YGTVGTKSTLVRKMVLDWCYGRLPAPF ELLIPFSSSLCQLVAQRYTPLKEVLPLMA AAGSHLLFVLHGLEHLNLDLRLAGTGLC SDPEEPQEPAAIIVNLLRKYMPLQASILV TTRPSAIGRIPSKYVGRYGEICGFSDTNL QKLYFQLRLNQPYCGYAVGGSGVSATP AQRDHLVQMLSRNLEGGHQAACFLPS YCWLVCATLHFLHAPTPAGQTLTSIYTS FLRLNFSGETLDSTDPNLSLMAYAART MGKLAYEGVSSRKTYFSEEDVCGCLGG WASGRRRSFSLHIFRSGWP
6875	14926	A	7573	201	1436	PCDPREYP**ATSPTRRSWPWSISHPRPG S/HPLALSQLFNPDACGRRVQTVVLYGT VGTGKSTLVRKMVLDWCYGRLPAPFELLI PFSCEDVSSVGRAPASMCQLVAQRYTPL KEVLPLMAAAGSHLLFVLHGLEHLNLDL RLAGTGLCSDPEEPQEPAAIIVNLLRKYM LPQASILVTTRPSAIGRIPSKYVGRYGEIC GFSDTNLQKLYFQLRLNQPYCGYAVGG SRVSATPAQRDHLVQMLSRNLEGGHQA AACFLPSYCWLVCATLHFLHAPTPAGQTL LTSIYTSFLRLNFSGETLDSTDPNLSLM AYAARTMGKLAYEGVSSRKTYFSEEDV CGCLEAGIRTEEEFQLLHIFRRDALRFFL APCVEPGRAGTFVFHRRARHAGIPRCPLH CAGFAQDDPAKGGQSG
6876	14927	A	7574	1	376	PFLPPYMKINSR*SKDINVNFKSGSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSPL*KKNTPIKKVWKDMDRPA
6877	14928	A	7575	288	468	KAEAGGWLEPRSSRPAPWRREAGAGQSP GPG\GRGCSEL*LCHCAPAWTTE*DLASK KKKQK
6878	14929	A	7576	1	378	YRKP/TADNIINGERLDAFPLRPQTRQG/T PFLLLLFNIVPEVLVRAIKQDLAETIIVI*IR KEEGKLSLCTDDMIFYVENPKEFIKILLE QISSQVAEYKINIQKSVVFLYTWNEQSK YEIKIISRA
6879	14930	A	7577	840	1093	QHKNLVL*SGRR*LLSQEES/GIFFTLVI TTFCWER*NRRILSQI*RMTGARIHQEP VIPAPWEAKAGGSLEIRSSRPAPWPTW
6880	14931	A	7578	254	701	KTGKEGPVRWLMFVILAPWEAKAGGSL EVRSSRPAPWT**NPIS/KNSKNIKISLA WWCTPVVLATEEAET*ESLEPGGRGCSE PRSCHSTPAWVIGAPSQKKKKKEKQARR SWLAGHSGHLHYASYAGRCGRVGGLE PRNSRAAWAT
6881	14932	A	7579	12	154	CLCMSTCMCACVCSVCMHICVDCVC /CVCVCACAYI*LRVCVLVCVFLYVCIFV SVIVCVMCVCVRIYLAFFHKSLLLK
6882	14933	A	758	381	1335	DMGYDVTRVQGDVD*DLICPICSGVLEE PVQAPHCEHAFACNACITQWFSQQQTCVP DRSVVTVVHLRPVPRIMRNMLSKLQIA CDNAVFGCSAVVRLDNLSHLSDCHEHN PKRPVTCEQGCGLMPPKDELPHNHCIKH LRSVVQQQQTIAELEKTSAEHKHQLAE QKRDIQLLKAYMRAIRSVNPNLQNLLEETI EYNEILEWVNSLQPARVTRWGGMISTPD AVLQAVIKRSLVESGCPASIVNELIENAH ERSWPQGLATLETRQMNRRYYENYVAK RIPGKQAVVVMACENQHMGGDMVQEP

						GLVMIFAHGVEEI
6883	14934	A	7580	139	350	AIMAPNFPS*VKT*SQEDGQTPNRIKLLK STSRHII/AEN*/LAK*NILKAVREKWLIT CRRTVISMTMDF
6884	14935	A	7581	17	245	GG*GCSCSEL*SCHCSPA WVT SKT LT QK KNPQF*QVV*NI*IPCLLD FSEFGLFLPKS YCYQCKVTLQCCKSLL
6885	14936	C	7582	82	300	MLGIFEG LQINQLVETGLKRWLRLNSF LKRFCYLLKSLSRSSRTTTTAFVCDGR WIMQIPGSVLPFPQCW*
6886	14937	A	7583	1	772	KENLITFPRIQISKDDFRYRGAIARKRI RLGRKYVISHKEEVPLCIHWDISKQASLS DSNVEALKKLA AKRGWEVTSTVEKIKIY TLEEHDVLSVWVEKHV/VEVQHI*LIRLL SDFTKRPLWDPHFVSL*SHRLG*VKDDQ LYHITCPILNDDKPKDLVLRHEGKPLK DGNTYHS/VAVKSVILPSVPPSPQYIRSEI CAGFLIHAI*QQFMHSYLTICLLGILPY FGWEILGGLGPKSIGRKQQLVYSS
6887	14938	A	7584	3	307	RFTEHHRTL TGEKPYECKE CKRLSSNT ALTQHQRHTGENPFECKE*GKAFNQKIT LIQHQRVHTGEKPYECKASGK/AFSWCG RFLHQILHTQKTPVQA
6888	14939	A	7585	1	374	TGVTPAATQASWTPPIDGPTTQEKL S*A NTAPGTEGEQQVHGEKKEDPAVPSAPP* YEESTSGEGRKAWAFPPAPTGEFHPNW AYVDPNSNSRYDNGVPTGDHEL*TTFS WDDQKVRRVFVR
6889	14940	A	7586	1	512	
6890	14941	A	7587	1	399	FFFFNYITRYNKHRY YKMSKKRCHKIF QMIDMLNAASCAALGRHSRWVLGGAH PTPP/GSAQAPAPWSHAMGARTLPPRPFR SFGHSSATPKVSPSAAMPTEAQR/LPGC GPGSDFAGHPQC*PPQVQIPTSC
6891	14942	A	7588	49	430	KWWKVDCVGDML ECASIGRSEAFKTSS FQFSLATSEVCGHSSATPKVSPSAAMPTE AQ/QTPPGCGPGSALLGIRSADHPKCRSP LRVPPPPRSTSKVLAPFLASSDHLEHTCS SQVRLPAAVRGAST
6892	14943	A	7589	467	1518	LANCRCVPGGHWQMVMRELWMWNV EEEEHEVGICTWGGQHCGCPAKSLPGPH PGGVSA PQSASQLMVKLLVWQKSVHKL RKVSATSSIAVYPCPGQSSGGAESPAPGP GLAGWSHL CGAALAEVQAAPVSQA AVS DASLGPEWSQEGCRPGLTSGQHGGRDG R*RGSRQGD P QSPSPGIPASSAAL*VGL VLVKWRPVHKAYDPVPEASPLSANFRN PGPAEAPGPMGKTKGRGSAGGAIGAGS AGLAPPPRSSQGAAGIGQ*PGLPEEAVHP CKGSCPASSLSAGTPRAPPHPCLGPRR QGPCSHGVTPGCRSLG*AGGVG*APPRT QREWRPRAAQEA AFNMSII
6893	14944	A	759	1	1236	
6894	14945	A	7590	296	423	MVI*KL/PYKKSQGLGTFTDEFYQILKEE LISILLTLFQKIQKE*VTYKKSQGLGTFTD EFYQILKEELISILLTLFQKIQKE
6895	14946	A	7591	3	167	VYTKILRADRDMLTGYPCCSTGLLTADD ***DNTLEV/IALRRGPFFYLEGLDLSPK

6896	14947	A	7592	19	406	PLQELGGQSLSLHYVGGRAPGPPAPGHP PVQSLQRPCVPTQQLLTPEFWCPAL/RQQ Q*GHRQGTGPVPTGPPPLKGWQQGPP QKEWQMRPKAFGHHPGGLCQSLGGAPR RWNRTYQAGPRQGCCGALM
6897	14948	A	7593	2	3532	
6898	14949	A	7594	3	300	KGPWKQENVEAEASMVIAVPEPFGGAI GQESITYHNGDKYLAIAPPIIKQSTIVCHN RVDP*WPQDTLLGDMEGRLFTALQKNP TEKKIPQALQQAN
6899	14950	B	7595	1	819	MARGSAGLVLRGRLHDWQLGSGHSAP GMLGQVALAGRTELAVPSLDTPGGGEQ RASDLRSLSSSHESDHTVRAAHSPLPAE ALTRSLPCLQNVAVHRLYIKCQLDFGGD SIAVGTPWYPMVWIPVWIPVWIPVW WMEHTVLIHLPVGGHVGSSHLSAPVNN VCGNVAEPPALCGTKASKPPLTPPIRS KAKFLGGSVCLGRHNKLSQTRWLKQQT FISHDPGGWKSNIKLTRPAQDLLMSVCM NCNTHGSEDMDVISHLIKIRLKP*
6900	14951	A	7596	2	3235	SPASPAGRSAAHGSASPSGSPHPSWCTV GRSSCWSSPSP*ASSGSGTPPTQPGRC G*MRRRPAGGAQAFQLKGKKWRRFGG W*PRWEAGCFQGEW*GATDSRTASNQL GPPHLQHLHINPPARQPPAFNRVVKQAP WRPQARAGAPGKPDQDAHQRVLQNG HLGAQTQEEVAVTLGWVPLVVLRL LCGTAPCAGSARSPRGELADGGDHSVE PPDGIPLDG/EQSGSGMSGALPGSSFLCP RRCRP
6901	14952	A	7597	2	1065	HMILCVENSKDSTKKNLLDLINFSKVA GYRINIQKSMALFTNNLAESRKQCPF /TDNIKHLRIHLTKMKVHQYSLHTENH KTLMKYIEEDTNK*NDIPCS*IGRINVVK VSILPKAIYRFNAIPKISSAFFTEIEKIIQF LWIHKRSQITKAILRKKNPGGILPNLNY YKTRVIKTIQYWHKRYTGQ/WK*PEINPN MYG**IFDKSTKTK\WEKGSFNK\WC WDFITCKRMKLGPIYITPYTKINPKWIKD LNVRT*SHKSRKENIRGKAPWTLGFGQC FLGYHTKTSGYKSNNK*MKLYQSKLL HRTKTINKMKRQCTDKEKIFANHISGKV LIFRI*EELIQLNS
6902	14953	A	7598	3	333	TLLPEIQAYTQEQWLGSPEEATAAERL QQESAGPGLQMNGGLVLGAWVCLPP/SS RPPAEPSTGAQSWVGG*EGPGGCGKVM VTGGSLLVLAWTAESEISSHTCVLRIVS
6903	14954	A	7599	252	684	HLFRQLFLEVLMSLQSPCLVAHSASRWC TAPVTADAPSLWRALALWLWLAHQGP GTGWVPLSLRRRSASRLAASPSNPSPR NIH*SPQRPVCSRGPSGPATCPLGLPRTSP GATRPGPVSPSPRSGIAAAPGLAPAST PP
6904	14955	A	76	189	442	KTMRSIRSFANDDRHVMVKHSTIYPSPE ELEAVQNMVSTVECALKHVSDWLDEN KGTKTEGETEVKKDEAGENYSKDNG*R TL
6905	14956	A	760	55	792	GRAGACSLIDTAMSIEESSDVIRLIMQYL KENSRLRALATLQEETTSLNTVDSIESF VAELKSGHWDTVLQAIQSLKLPDKTLID LYEQVVLELIELR/ENLGAARSLFETRPDP MIK\KQTQPERYIHLENLARSYFDPRE AYPDGSSKEKRRAAIAQALAGEVSVVPP SRLMALLGQALKWQQHQGLLPGMTID LFRGKAAVKDVEEEKFPTQLSRHIKFGQ KSHVECAPRAEFVQRRSN

6906	14957	A	7600	156	888	FRSSVSPGSGPPFSVSVTGS GCPS**HSGR PGVLVLKLP GQS*ASLPPAFPGGSDVAA GRGLSSAADCFSLTGLGLATPVLF LT SN LKLLQESVPK*LNSASS/PGVPRP*LQMH RLCGGPRSLAVVGTRPGARNWLASAFS/ VGGGQLLGLQHPLQKIPPSRNIH*SPQRP VCWKAGRRKTKPRVDLQALETCPLGLP RTSPGATRP GPVSPLPSRSGIAAAPGLA PASTPPLSPGPTPLPP
6907	14958	A	7601	231	457	QWLSLLPLGLGEDTKSLRANTS NLELHS QATIWEEGGPTSSSLWRPFNFP GSPTNRN PKLMPAVQPPHPSG*TPSVTWLHISWR WSP*GQSKASLPLPLPWNSTCYPQTNKE TKTQSALSTPSTNCNQPKERRPVCLPWV PPTSCSSTDREPPAWAHSTDPPSCDGTAK VPSSAGSKLGRKHPRAAVGSLGASSHN LKAMGEEPTL/VTALRGSKVTTV/SETTR PRKKLSTDQYT*APPTGSHPKASTPKIRC CVSPFSRCYEEIPETG*LIKERGLIDSQFH MAGEPSGNLQPWRKAKEKQAPSSQSGR TE*VPAGEMLDTYKTIRSHETHSLSREQH GENHPYDPITSTWSHP*HVGIMGITIQGEI WVGTSQTISLTYPSP*NQTKEVSNK*RP PYGRREDQPLPPCGGLSTSLVPQQTGTPS SCQQCSRPIPVAEHPQ
6908	14959	A	7602	2	289	LACYSPFPGGP/PSSPPPRAGGSNPPGPPG LTPFPKK/AKKLL/RPSSSPPLFP LGRVG PGDSFYPGGEGFP*PRVPIT*NWGPFPPPR GTKKKLPF
6909	14960	A	7603	3	805	DRVSLLLPRLECNGAISPHCNFR R PGSSH SLASASRVAGITGVCHHA*LIFVFLVEME FHHAGQAGLELLTSGDPSPWPSPKV/YRI TRHGATATWPYIFKNFYPTRPS*NSLSLK RTS*IQMPAL*MERLQFVCPS/LAEDLT F*EKQDSKFTSQNREN*AFSRRS*GMLEK D*KWTTSDIV*VFVLFKSHVEMLSPVLE VGSSRRFLGHGGRSLMNGWVLSLW**V SSYSISSCESWF*KESSVFLTFLLPFWPC DMPAPPLRLPP
6910	14961	A	7604	75	484	EIQLVLSLKTSLNKFKEIIEISSILSDHSGI KLEINSKGKLQNHANTWKLNNLLNEH WVKNNIKMEIKTF/FELNDNNGTAYQNL WDTAKAVLRGKFTALNAYIKKYERAQT DNLRSHLKELEKQQT KPSRRKKK
6911	14962	A	7605	3	1105	
6912	14963	A	7606	802	1204	VLEVLTRAVRQEKEIKGIQIGKEEVKLLL FADDMIMYLENPKDSSKLLGLMNEFSR VSGYKINVHKSVALLYTNSDQAENQIKN SAPFTVV/SKKK*LND*IKYLGHI LTKEVK DLYKENYKTLLKESIDDISK
6913	14964	A	7607	3	419	RVECVVGLEYDRSAAASNTITQVVVTHI QALSHEQ/SAAYTSFSNKHESFSRIHLL GHKLGLNHF*NVGIM/PN/IFSNPNRITLEI NTRSKTEKSTNLWKLNTLLNSQQSREE IPREKENT*NENENAAAQHLQDAAKAA
6914	14965	A	7608	1	341	RMGTCVNPRSLKGFGPRPGGKKKPKQSSP LKS/SPKMALMGGNPGGAPFFRFLFFNF RFGPKKSSSPAPIFFFLKGL*INFGPPREP GGFNQKPQFPSAPGFEPWNPQGP KP
6915	14966	A	7609	1	409	
6916	14967	A	761	85	379	KKPKTKKRTGPVRQNVWRGSLSPGRA PAEGPQGGSTESPLLVGRCILGLREPG VPPAA YGRFLRDYMNISIQGKLEKQRPQ* GLPSLTGAAELIKH

6917	14968	A	7610	3	644	GDQRDLISNNEQLPMLG/ERPGAPESQRP AQPSRDTRPPLPSPKIASPMCSLKKG*KA ITPMPLLPQSPKTPKP/VSKMRMATPLLM QALPM/DALPQGPQMKNATKY/GNMTED HVMHLL/TVLTKC/QEEVSHIPAVHPGSF RP/KCDENGNYLPLQCYGS/TGYCWCVF PNGTEVPNT/KSRGHHNCSAPSPSPISHLY LIP*DPGAWLFRHPGQDKPSRNSR
6918	14969	A	7611	1	1032	MHRRRSRSCREDQKPVMDQQRDLISNN EQLPMLGRRPGAPESKCSRGAlyTGFSIL VTLLLAGQATTAYFLYQQQGRLDKLT TSQNLQLENLRMKLPQASKPVSKMRM ATPLLMQALPMGALPQGPQMKNATKYG NMTEDHVMHLLQNADPLKVYPPLKGSF PENLRHLAKNTMETIDWKVFE/SWMHH WLALFEMSQPLPCSKSPLDAPPKVLTKC QEEVSHIPAVHPGSF/RGPKCGRGTGNY LAIPVAYWGASATC/WCCLPNG/TREVP NTRSRGHHNCSSESLGTWKDPSFLGLGV LTKQDLGPVPIVRASRGGLQHPASPTQL QLSCSLQPPAPPPSPTL
6919	14970	A	7612	59	321	LSGSPLVTATSQVPLSRGKTGGPDAL/ SALPAPTSPISPPPSRSSLRRPRAPSGCP WGCPGSLQQAQGPLHWQDYRPGVRVRL PG
6920	14971	A	7613	1	464	DEEDGENAHPYRNSDPVIGTHTEKVSLK ASDSMDSLYSGQSSSGITSCSDGTSNRD SFRLDDDGYPYSGPYCDQATLHTDFTSP YDTSCLKI*KGDIIDICKTPMRMWTGMV NNKVGNFQFIYVDVISDEEAAPMTIKAN RRSISILSKTLQ
6921	14972	A	7614	1	2119	LSLFLDLNENDFLSNNIHTYQGKTLQGTS YQAIKSGSDPVESMGTLKRLQKLWVTK KARVQNLDEVKPTLINLQDEDDTLISCL KLTKSREKKVNSVSTRKEEMEIRLDTL SASLGRSSTLNNCNLEDKLAWYEGEAY MWHHWKPFENPLWTCDFQIAQVGPW DHCSSCIRHTRLKSSCSMDLLHSWVTL CRQESSNITCWTKLREKRGDLFCILFVCF IDRKTPRKFSQQALEILKIGRKQKVHSL GVVRIQNAQEKAIQCFREGETSKTKEYE SVIKFYPKQRSSSFGNFRNNSLSKPD DSTEAEHGDPTNGSGEQSKTSNKEAVW GKKMRAISWTMRKKWGKKYIKALSEE KDEEDGENAHPYRNSDPVIGTHTEKVSL KASDSMDSLYSGQSSSGITSCSDGTSNR DSFRLDDDGYPYSGPFCGRARVHTDFTS PYDTSCLKIKVIGEQCLVTWKGDIIIDIC KTPMGMWTGMLNNKVGNFQFIYVDVIS EEEEAPKKIKANRRSNSKSKTLQEFLE RIHLQEYTSLLNGYETLEDLKDIKESH LIELNIENPDDRRRLLSAAENFLEEIIQE QENEPEPLSLSSDISLNKSQDDCPRDSG CYISSGNSDNGKEDLESENLSMMLTDP LQLSPQLPQRGAGNINRRKTGSLGHGK LNKEQRKDKKRLIQGWEVAELGPSAAF G
6922	14973	A	7615	3	452	
6923	14974	A	7616	1	475	PDSSGPHRLRENPPMVAVSCPTKTNVKG PPGGKVGAAHAQYGSALGRUFLSFPT TKTYFPHFDLASHGSAQV*GATGKKVAD ALTNAVAHVDDMPNVAVRP*SDLHAHK LRVDPVNFKLLSHCLLG*PWPAPHLPRPS FTPCGGTPSLEQSSWASC
6924	14975	A	7617	26	461	WESCGPHQRTG*AGSSRCGWRRRAAGP GCHQPRAGVPGRTRCAGRSPAADAAGR CWLGPPPPGCGPRCLR*CAGHPPAGSA RVWSVVAGASTGLGRLWGRRWSPSCH RCQSPGCQAGRRGTARLSWPLSRRTSCR

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6925	14976	A	7618	3	419	LLDPSDGKSCGPTSKDCRRRIQYSVEA LPRPALPHTTRGSGRKEARGEQSGAGA PADPDKLEAAVAVGEDVQQAPGCHQPR AGVPGRTCRAGRSPATRGTRDGT/QGR AGPATVPIPPGPWGGPTCRRCRTLLARR S
6926	14977	A	7619	2	227	AGVFCDAGLTFTSSSGQQAQRAELLCP QPAALRRRSEPFVHLLDISGEYLLGTFY YCVENLRDGPCVVADAV
6927	14978	A	762	209	393	WAVYCTSFMLS*CYKI*CKPALSLGI*T TEVKTYVYTNRCCEMSTSALLIVAKN*K HSCC
6928	14979	A	7620	11	394	SEFCDWVADLDVQKYEQPS/HEALTSMG STEARVDYMGSSILMGIFSNADLKLQDE WKVNLNTLDSSITDKSEIFVHGDLKWD IFQVMISRSTTPDLIKIGMKLQEFFTQQFD TSTRALSTWGPVPYL
6929	14980	A	7621	3	185	FFFFFER/CPTLAQARVLWCLHSSPQPQS PW/VSSNPAS/ASQAAGTAGMCHRAWLL KTEVGDL
6930	14981	A	7622	1543	1744	FVKSKALAFFLSFFFFFFLQSLSVTQAG VQWPVDSLQPLPRFRKFSCLSLPSSWD YRCVPQCPAN
6931	14982	A	7623	1	259	SENQEQEEVITVRVYDPRVQNEGSWNSY VDYKIFLHTNSKAFTAKTSCVRRRYREF VWLRKQLQRYAGLVPVSELPGMPTLYG LY
6932	14983	A	7624	3	265	CCHPRLACSGMILA YCQSR L PGSKRFP CLSLPSSWDYKQPCHHTRIILVFLVETGF HHVGQTGLE/MLRNSGDPPTLASQKCW DYKA
6933	14984	A	7625	2	375	RAALTPSTYKGAPSPK/GAPHSTGV TSA SPKEAPTPPAVTPPSPEKGPATPAPKGTP TSPPVTPSSLKDSPTSPASVTCKMGATVP QASKGLPAKKGPTALKEVLVAPAPESTPI ITAPTRKGPQ
6934	14985	A	7626	2	425	IFPPPKRGFFSKKKGVVFNPPASSSRFFAR PPPGVGPPPQVSSSSSPFYFYASSSSYSS SSNFPS/HSSSSSSSSSPRQQHPHLYPHC RLGWAERAW/PPGTPLYHYKTQRKQGT SASPGRGTTCHTPQSPPLPGHHRCPW
6935	14986	A	7627	3	253	
6936	14987	A	7628	48	557	AGLGKARLAPGTPLYHYKTQRKQGTSA SPGRGTTVTQRGH CYQNA PRTLQPPPC GQQTSGH*GPGWPYESQRLWKTPQRS* Q*FLHPPPR/HCHTPACGAASAPCVGRY CPRCSCAPARSASLAALTRETAPLLSPS WAPGDPTLEGWPGNGSPLPPRGM*PHL YPHCRLGWAKRAWPRGHHCITIKPRGN KEQVQVRGEGPLSRKEVTVIKTLVVFH SHHLAASKPAAIEGLDGLMSLRGYGKLH KDLDNDFCILLALPHSCLRSSFCITMCR ALLPEMLMCSCSLISGRSDSGNSSSSSFS FLGSRRPHVGLAREWFTTPTGEDVTGI EDGL

6937	14988	B	7629	122	1028	MENGQSTAAKGLPLPTPEQQEALQKA KKYAMEQSIKSVLVKQTIHQQQQLTNL QMAAVTMGFGDPLSPLQSMQAQRQGA LAIMCRVYVGSIIYELGEDTIRQAFAPFG PIKSIDMSWDSVTMKHKGFVFEYEVPE AAQLALEQMNSVMLGGRNIKVGRPSNI GQAQPIIDQLAEEARAFNRIVVASVHQD LSDDDIKSVFEAFGKIKSCTLARDPTTGK HKGYGFIYEKAQSSQDAVSSMNLFDLG GQYLRVGKAVTPPMPLLTPTPGGLPPA AAVAAAAATAKITAQEA VAGAAVLX*
6938	14989	A	763	348	638	VQGKPWGMGRAVCPAPGPVRLERPV GTPCLCLHPARMTPAWGSIHCLPSHGGC PCLPVNAPSWLGQPSWARALLQ*WV LGAEGHLPTLRTTVG
6939	14990	A	7630	3	407	KSMTEAEQQQLIDDHFLFDKPVSPLLLA SGMARDWPDARGI/WIETLFKSKDYEFM WNPHLG YILT CPSNLGTGLRAGVHIKHE KFSEVLKRLRLQKRGTGGVDTA AVGGV FDVSNADRLGFSEVELVQMVVDGVN
6940	14991	A	7631	1	170	
6941	14992	A	7632	1	411	SYEVFKELFDPIISDRHGGYKPTDKHKTD LNP NLKGGDDLDPNYVLSSRVRTGRS GYTLPPHCSRGERRAVEKLSVEALNSLT GEFKGKYYP LKSMTEKEQQQLIDDHFLF DKPVSPLLLASGMARDWPDARGI
6942	14993	A	7633	2	1250	LPTDGAPPPPPGRPPAAAMPFSNSHNAL KLRFAEDEFPDLSAHNNHMAKVLTPEL YAE LRAKSTPSGFTLDDVIQTGVNDPGH PYIMTVGCVAGDEESYEVFKDLFDPIED RDGGYKPSDEHKTDLPDNLQGGDDLD PNYVLSSRVRTGRSIRGFCLPPHCSRGE GRAIEKLAVEALSSL/DGDLAGRYAL KSMTEAEQQQLIDDHFLFDKPVSPLLLG LGHGRRNWP DARGIWHNDNKTFVLVWV NEVEDHLRVISMQKGGNMKEVFTRFCT GLTQIETLFKSKDYEFMWNPFHWATSL PCHCNLGTGLRAGLHKLPLNGQGM KFSEVLKPAE LSKSRPPGGVEHGLR WAGVFDVFTLNRPGPSQSVELVQMV VDGVKLLIEMEQRLEQQQAIDDLHAW PKK
6943	14994	A	7634	1	175	EQLPYFVTFISMPATT/EGRRGFSLSVESA CSNYATTVQVKVVRMHISPRALGTLH HN
6944	14995	A	7635	1	83	
6945	14996	A	7636	61	2028	
6946	14997	A	7638	517	1038	NKRIYNCMMISSRRVISLSPVLLQIFDCP RLKFSEIPQRLTALLPPDPVINVH VSEV APACFSDQGMISFLPSLPLPLPSLLPP CWICPSGALGPVWGHRCHEGLDFPGSV DPSDQKKTACYDIDVEVEEPLKGQMSSF LLSTANQQEISALDSKVGP KPRAGVGH
6947	14998	A	7639	154	1594	LSRCRTLPSMTPLQHPTTVVQRP GMP GARMPHQGRPWAPRAPRTWAAPCDPA WPPRDGARPQASSAPARQSQASQGGP EPTAPARSRAKRRKMADKILPQRIREL PESQAYMDLLAFERKLDQTIMRKGVDIQ EALKRPMKQKRKLRLYISNTFNPAKSDA EDSDGSIASWELRVEGKLLDDPSKQKRK FSSFFKSLVIELDKDL YGPDNHLVEWHR TPTTQETDGFQVKVRPGDLSVRCITLLM LDYQPPQFKLDPRLARLLGLHTQSRSAIV QALWQYVKTNR LQDSHDKEYTMDGK YFPQNFDCPRLKFT*IPQRTAVLMPP DPVINVHVISVDPDQKKTACYDIDVEV EPIK/GGQMSSFLSTANNQQEISALDS KIHETIESINQLKIQRDFMLSFLRRPHKL CARTWLRSEQPGTSR*LT DVAGNPEER

						RA\EFYHQ\PWSQEAVSRYFY\CKIQASA GKEAW
6948	14999	A	764	746	1280	ISHMELQFGAIFAEILFRGPFHHLHNINFT WASCCPHASQPGRQRGSSWNEYHSFRE FNQEKEKIWRAGESAPLPLAGAAACPW RGGASNPICVTGASAAGGRAGGSGEET GSAPGAACSST*ESYEA\FSGFSSSPGNSV *TFSTSSTYTASPPTSPSPSPSPPCYYYS SSSSL
6949	15000	A	7640	256	426	HPICPQT\TKAFLPRMLELQNGHIVCLNSV LALSAIPGA\IDYCTSEAADFGFMESLT
6950	15001	A	7641	1	985	RIARPGEFRPLPGSAARRMAWKRLGALV MFPLQMIYLVVKA\AVGLVLP\AKLRDLS RENVLITGGGRGIGRQLAREFAERGARKI VL\WGRTEKCLKETTEEIRQM\GTECHYF ICDVGNRD\EVYQ\TAKAAREKVGDITILV K\NAAVV\HMGKSLMD\SDDDAFLKAQ\ NINTLG\QFWNHQGPFS\GKLCWKQ\QNGP H\LVCLQLPLL\GIVLAI\LP\GAIDY\CTSKA SAFAFMESLDPG\VL\AGTCPGV\SATTVL ALSTTSTEMFQGH*EFRF\PNLFPPLK\PET VARK\TQVEAVQLNQALLLPWTMHAL VILKSILPQA\ALEEIHKILKETY\NLE
6951	15002	A	7642	1	376	KQAASNQLDSLMGLG\DSHPVEERGILC EFCGVQLFYDVLVHYQDQWDLRPGTAF FRVTEGIPRLHSQAQETWPEL\PLRRVRR QENLSSGYLDDTLLETANGPTFCLPARPF NNMTATYNQLSRS
6952	15003	A	7643	1	2753	MKEFSSTAQGNTEVIHTGT\LRHERHHI GDFCFQEMEKDIHDFEFQWKEDERN\SH APMTEIKQLTGSTNRHDQRHAGNKPIKD QLGSSFHS\HLP\ELHMFQTEGKIGNQVEK SINSASLVSTSQRISCRPKTHISKNYGNF LNSSLLTQKQEVH\HREKSFQCNESGKAF NYSSVLRKHQIIHLGAKQYKCDVCGKV NQKRYLACHRRCHTGKPKYCND\CGKT FSQELTLTCHHRLHTGEKHYKCSECGKT FS
6953	15004	A	7644	1	149	DSFGASRFLRIHA\ENTYFTLRAYFAESRCI EALDELASLQVTMHQAQKHT
6954	15005	A	7645	81	331	KGARFLLILYLLDAFLFNLDLFFLEYPS YFLLCFC\SLLLFFCHCFSLYFFVCRPSS LFSSSILLILLFLVRLLFLCLFL
6955	15006	A	7646	701	1114	ATRH\SM\SCIYTYIYIKHTHTHVFIYIYT YTYIHTHIYTYTYICHTHIHIYIYIYIHTH FFFFFFFETESRSVTQAGVQWHDLGSLQ AASWGHA\DSPASTSQAAGTTGAHHHA Q/LI\FFFFVFLVETGPHRASQDS
6956	15007	A	7647	1	207	RSVFRER\GKLSAG\SLVERLYRVR\RFDRF ERILKMARKAVETHVLRSPHLVSDYRDS IIPSESLALPC
6957	15008	C	7648	244	432	
6958	15009	A	7649	898	1144	IFQLLLM\EGPANIIGNTGSSNTGRSNTGP SNQSSYLISFLFCFFETESRSGRPGLGV QWAWISGSLQALPPGSTPFSCLS

6959	15010	A	765	1	493	KGPVSKEPRSGMNRNSALRVNVRPLRPC PQEGGLPLQSCVPPLGLCRVPSRGKQPK HLLPTG**AIALPNLHVIDFIPLKLSFGL* GVPQGGPPPLGRGPQSQGSVLTQAPMGG GPRKGLPIDRPCE*GACTLGPWAAVPVLS SKGPFPTTVGPRSLSDSFSAR
6960	15011	A	7650	1	476	ATRELVTSGLRRKTGLWARPREKPTA WHLASLRPDELVRNPQEPQPGPREEGS LGHVARTPAPGGGQRHLSRAGHSRPG RRFKATLWLSEEHPPLSLGDQVTPIDLM AISNAHFAKLRFITLRLPPGFVPVKIEPL FHVNLARIHLSGNLCCG
6961	15012	A	7651	1	1071	
6962	15013	A	7652	2	240	SCSIGSFQFG/YYPGVINAPETIHKKFKINK/S LTAKANAPPSEVLLTNLWSLSVAIFSRRG YESASLFPSSGLFVNRFQVLT
6963	15014	A	7653	2	391	QTGRGMWCSLVFLLLPATPRKQSEPK TTDAAAPGTADTAGPGTMDTAVPRKAE TAVPGKRNTAVPGTADPASPGTADTAEP MRTTTPTVLASWPSLTQSTKAPSPRLLP APSPGSCSATSTSCSRSP
6964	15015	A	7654	1	200	
6965	15016	A	7655	3	416	CLFPVQLLLDHGADPNQRDGLGNTPLHL AACTNHVPVITLLRGGSGFFPSLSSFSF SPPECSPQLVPAGARVDALDRAGRTPLH LAESKLNILLEGHAQCLEAVRLEEKHHH MLKEHLELLGRHYQLINAWMTLD
6966	15017	A	7656	1	395	KVQSRCSSKENILRASHSAVDITKVARR PRMASFALTSMDKAFITVLEMPVLGTE IINYRYGMARGLVQYVVSDDIVFSFLFSL LYEYFIRSFHFSLSLFIYLSLSRFFKLRESF FCFSSIFLSSTFALS
6967	15018	A	7657	210	441	LNPILYSPGRDHRVQNFHLPRLCIQKLP KSKCFIYELPAHRKKLVQLEPLTDELE PDFVRQVTEMSYIFSHSMI
6968	15019	A	7658	8	399	RVGVAGPAPWWLRVSLGGRDFHTPISV TKVAERGKAEDADLRPGDIIVANGESAE GMLHAEAQSKIRQSPSPLRLQLDRSQAT SPGQTNGDSSLEVLATRFQGSVRTYTES QSSLRSSYSSTSLSSRA
6969	15020	A	7659	2	260	WEPPWPGPVLGLPLPLPPSSPSSLPIPPP PRGCSLGASSA/WTAWVSSPKPVRPQE PPPGGEGSNENHRRKWHPPFSVMLKSCY
6970	15021	C	766	82	201	MKSKHFINLISRQHKNYNLIYTFIRSRDF KTAIFLSILS*
6971	15022	A	7660	2	442	PRVRVYYFRQGHEAYVEMARKNKIYSI NPKKQPWHKMELREQELMKIVGIKYEYV GLPTLCCLKLAFLDPDTGKLTGGSFTMK YHDMPDVIDFLVLRQQFDDAKYRRWNI GKGE/CSDRFRSVIDDAWWFGTIESQEPL QLEYPDLSLFQ
6972	15023	A	7661	965	1232	TGVQWPDLSLQPLPPEFKQFSCLSLLR GWDCCRPLQLADFCIFSRDGGYCYVG QAGLKLLTSN/DLPASASQSAGITGVSLC TOPKSS
6973	15024	B	7662	111	374	MVAAATGSEILLWALQAEGGGSEIGDSG NWIEIAYGTSLGGVRVIVQHPETVSGSP QLLQTFVHRSPVTKIMLWEKHLISVCA DNNH*
6974	15025	A	7663	387	545	

6975	15026	B	7664	181	4716	MGRPAPAVPRPARPATPPAWTAALPAG RPRGDPGFRAFLCPLICHNGGVCVKPDR CLCPPDFAGKFCQLHSSGARPPAPAIPGL TRSVYTMPLANHRDDEHGVASMVSVHV EHPQEASVVVHQVERVSGPWEEADAEA VARAEAAARAEAAAPYTVLAQSAAPRED GYSDASGFGYCFRELGGECASPLPGLR TQEVCCRAGLAWGVHDCQLCSERLGN SERVSAPDGPCPTGFERVNGSCEDVDEC ATGGRCQ
6976	15027	A	7665	209	1288	EEKNERDRDTERKGEARTSKTSQKRET KETTGGKTKQKRKKEKTTDKKTKRKR TSKTEENKKRQKEKEDRERDESTKRKE GERERRGNARRRKKGGEHKKRGERRN NSKGEGEEEEERGRKTKAKTRRTRQATNT DSKNEKGRKGKGQTRARRPAETGRRRR KRKRQRKAGETTPGETGRWCASVRSVD GSPTTAFTVLECEGSRRLGSRPRRYLLN CQANGSLAMWDLTTAMDGFQAPAGG LTEQELMEQLEHCELAPP/R/CASSSLNG AVSPSPSPRISLT/NASTQASSNTSFVWPT VGSPKPPARLKARRRGWGEALWKAAR NWCVGQTSBGHPHQAPWPSKRSRHSP HTFQE
6977	15028	A	7666	3	1703	GGRRAAALGVAIGAAGAAARAAWTGP ARRASPRALHPGRVRPALRPWADRLPLY PDLRAPQRHQRGQRSSRRGGPGGTRLPR LVPSEAAEPAQPSGASAAARTAQPLSDG ATRCPPTLAMHGCWAECWMRKPLPHPQ VRFYLVGQPEEPMVRLVCGHHNWIA VAYTQFLVCYRLKEASGWQLVFSSPRLD WPIERLALHARVHGGALGEHDKMVAA ATGSEILLWALQAEGGGSEIGVFHLGVP VEALFFVGNQLIATSHTGRIGVWNAVTK HWQVQEVQPITSYDAAGSFLLGCNNGS IYYVDVQKFPLRMKDNDLLVSELYRDP AEDGVTALSVYLTPKTSDSGNWIEIAYG TSSGGVRVIVQHPETVGGPQLFQTFTV HR\SPVTKIMLSEKHLISVCADNNHVRT WSVTRFR\GMISTQPGSTPLASFILALES ADGHGGCSAGNDIGPYGERDDQVFIQ KVVPASQLFVRLSSTGQRVCSVRSVDG SPTTAFTVLECEGSRRLGSRPRRYLLTGQ ANGSLAMWDLTTAMDGLGR/SPAGGLT EQELMEQLEHCELAP
6978	15029	A	7667	8	566	TLVTVGNSQGREGLAFLVSCPEGRADCA SESACSSDSLDEARSSGSEGTADTGDLS PGHGASAPSVSREARQTVPLTVRLHTQ SVSECITEDGRTVAVGDIVWGHR*GRT CWPGASDLCSGL*AFWPAACRAHWAR WSAWCEVPRGPAVCSGRGWT*AQRLLP LSVFVPTTQMAALAHEAV
6979	15030	A	7668	2	610	SPEILVDPRLRPRVRLAFLVSLVGRADC ASESACSSDSLDEARSSGSEGTADTGDLS SPGHGASAPSVSREARQTVPLTVRLHT QSVSECITEDGRTVAVGDIVWGKIHGFP WWPARVLDISL/WPEGGRRAVLAR\RKV SWIGSPTTSFLSISKLSPFSEFFKLRFNRK KKGMYRKAITEAANAARHVAPEIRELLT QFET
6980	15031	A	7669	3	392	ADAAVPTRCVTSGHSLPISGHAAESELFH R/P/AGIILPSRRNVLPARGASSTRRARPLE RPATVPVPAPSSRAARSRHIDPLLQSSSPT PPGPTGSAAYVAVPTPNSSSPGAGRPA GAMLYHSWVSEITE
6981	15032	A	767	88	372	QGMDSKRRGVKLNLDGQFMPVLGFGTY APS*VPRSKALEVTKLAIEPGFRRIDSGH LYTNEEQAGLAILNMIADGCVKREDIFY TSELWATFY*PE

6982	15033	A	7670	5	393	GFRNPPRDSHHPHSTRRRRAFLRRWEKD PGRGKGRAPEPAQQRDASPTRRPLEGP/ PREHLRQWERLPPKSPWKEVFAFVSAN KACSALSGPVAPVETAAEPSPPS/PRVRG RSGPRTKGARPRNRCCDD
6983	15034	A	7671	2	399	ARTNTGGRPYCFIRMSNLHRTQQGYN NPRPLSTNIIQSDIQTETKLRPYQISMCE LGSAGVTSAFSADCKGAEKISSGHQRL EPATLSGIAGFILSLLWGALNLPGFHAI QRLLOREGDDFNSFIALF
6984	15035	C	7672	151	339	MSTFPIHISPKLRGDDVGRXLXWRWPL RGFCATVRWCPPGAAGWCAXPVRAESA FXRPAKS*
6985	15036	A	7673	19	443	SVRWNSCRAEAPQWPAPAAAPAAHSPH LSLGESGLGKLILNSLFLTDLYSPEYPGP SQRIKKPVQVYILVFLIDDKLE*Y*YTQST CCNFHYASQSWQPAINYIDSKFEDYLN ESRVNRCQMPGNRVQGCIFYIAPSGH
6986	15037	A	7674	152	532	QALRANRPAPVAEGATDRTVAQKLLNG QRQLQPRPTRLI*AWVEQSKVLIKDGG VQLLTIVDTPRFGDAVDNSNCWQPVIN YIDIKFEDYLNESRVNRCQMPGNRVQ* *LYFIAPSGHGPLHN
6987	15038	A	7675	1	627	GSARSAAEERSVNSSTMVAQKQKNEG YVGFANLPNQVYRKSVKRGFEFTLMVV GESGLGKSTLINSFLTDLYSPEYPGPGSH RIKKTIVQVEQCGVLKEGGVHLLLTIVD TPGFAGDAVDMNSC'WQPVYIDYIDSKFE DYLNESRVTRRQMPDNRVQCCLYFIA PSGHGLKPLDIEFMKRLHEKVNIPLIAK ADTLTPEECQFK
6988	15039	A	7676	2	371	VLELEERALLREARLGRARSSGGMQATP ATEGLARPQAPSSAFRCPCYCKGKFRS AERERHLHLHRPWKCGLCFSGSSQEEE LLHHTCQVCGQSFTQSWFLKGHMRKH KASFDHACPVCGR
6989	15040	A	7677	44	983	RGSMEGSRPRAPSGHLAPSPPAFDGELD LQRYSNPAPVSAAGSLGMGAVSWSESRA GERRFPCPVCGKRFRFNSILALHLRAHPG AQAFQCPHCGHRAAQRALLRSHLRTHQ PERPRSPAARLLELEERALLREAPTGES PKLRGHAGHPLPLMVW/PRQAPSSAF RCPYCKGKFRTRLERERHLHLHRPWK CGLCSFGSSQEEELLHHSHTAHGAPERPL AATSVAPPPQPQPQPQPPEPRSVQPEP EPEPEREATPTPAPAAPEPPAPPEFRCQ VCGQSFTQSWFLKGHMRKHKASFDHA CPVCGR
6990	15041	A	7678	1	582	GNAGLSSLTEGVLDLFAVKAVYMGHPGI DIHTVCVQNKLGSMFLSETGVTLTYGLQ TTDNRLHVFAPKHTAKMLFSGLLELTR AVRKMRFKPDQRQQLRKQYVSLYQE DGRYEGPTLAHAVELFGGRRWSARNPS PGTSAKNAEKPNMQRNNTLGISTTKKKK KILMRGESGEVTDDEMATRKAKMHKEC R
6991	15042	A	7679	2	428	SVGSESDSSKEGPSMTRSGPLRRSRAVP G/PEESQGNLTVIRVVIHDLQQTCKIRFNP DATVWVAKQRILCTLQSLKDVLNYGL FQPASNGRDGKFLDEERLLREYPQPVGE GVPSLEFRYKKRVYKQASLDEKQLAKL HTK
6992	15043	A	768	177	311	WFQNPCYYLFFLETESLSPRLERSGTVS AHCSL*LPSSSDSPAS
6993	15044	A	7680	1	248	VIFLVNSGSEANELAMLARAHSNNIDII SF/RTMCPDVFRGPWGGSHCRDSPVQTIR KCSCAPGPTGQGGCQWSVGSWKGHE
6994	15045	A	7681	1	501	

6995	15046	C	7682	60	380	
6996	15047	A	7683	3	649	LSPSYFHSISFPHSLFLPLEGTVTRNRELW GLLQAMGVHHSRIPLLAPPHLNLKVQQ DSEQLEPGLQSASMGVGFSLGRNDSNLE TFAETLVPGSIPLPGILEMHPFLSLGTSRT SVTKLSLHIKPRMPPCDFMPERYQVIFLV NSGSEA\NE\LA\ML\MARAH\SN\NID\N\SF GAY\HG\CS\PY\TL\GL\TN\VG\TY\KM\KL\PGG TGCQPVSL\EIFLLFL
6997	15048	A	7684	27	211	FHIVQYFNFFVCLFVCLFETESTLSRLEG SGVISAH\CNL\TLPPGFNNSCASASRVAG TTQ
6998	15049	A	7685	1	310	RPRRRGDHREVKGGRGGKGGEGRPQGG QRWAVGKGGEGRPQGGQRWAVGKGGE GRPQGGQRWAEKGKGGEGRPQGGQRIGQ WGKGGEGRPQGGGER\GPGGKGGE
6999	15050	A	7686	2	320	KYVFTDISYSIPHRERFIVVREPSGTLRKA SWEERDRMIQVYFPKEGRKILTPHFKEE NLRFEPDSTEYIKVHHKTYEDIDKRGKY DLLRSTRYFGWEVWVFC
7000	15051	A	7687	22	1071	GVLRAWNGSVSGLESSPGTVACSNRYL ALSRWGCHSRRINSYGAESGSPETKKPT FMDEEVQVRVLTGMTGLNLQKTFKPAIQ ELKPPTYKLMTQAQLEEATRQAVEAAK VRLKMPPVLEERVPIINDVLADKDFWK GTETTKYVFTDISYCIPHRERFIVVREPS GTLRKASL\EDRDRMIQVYFPKEGRKILP PHFKEE\NLR\TMYSQDRHVDVNLNCFQ FEPDSTEYIKVHHKTYEDIDKRGKYDLL RSTRYFG\EMVWVYFVN\NKKIDGLLDIQI RDLDDATNLVQLYHVLHPDGGSAQGA KDQAAEGINLIKVF\AKTEAQKGAYIELT LQTYQEALSRHSAAS
7001	15052	A	7688	2	383	FSAPAASEPLPFGPPPPSEPLPFGPPPSDP LAFAPPPSEPLTFSGPPPPSEPLTFSGPPP SDPLCFTAPPPSEPVPFSGPAPSDRLPFFG PTTSEPPNR\PGMPTQPHICLSKNTPLPE PTRLHP
7002	15053	A	7689	3	2484	PAIKIRRRRVRDLQDPPPMQMAPEIQPPSH HFSPEQRALLYEDTLTYVLHRLGHPEPN HVTEASELLRYLQEAHFVEPEEHQQTLQ RVRELEKPIFCLKATVKQAKGILGKDVS GFSDPYCLLGIEQGVGVPGSPGSRHRQ KAVVRHTIPEEETHRTQVITQTLNPVWD ETFILEFEDITNASFHLDMWDLDTVESVR QKLGE\TDLHGLRRIFKEARKDKGQDDF LGNVVLRLQDLRCREDQWYPLEPRTES YPDRGQGH\LGQLVHKRRATSASR\SQP SYTVHLHLLQQLVSHEVTQHEAGSTS/W GRVAES\QAATV\FLHATQKDLSDFHQS MAQWVAYSRLYQSLEFPSSCLLHPITSIE YQWIQGR\KAEQEQEELAAFSLLTYGL SLIRRF\RSV\FPLSVSDSPARLQSLRLV QMCKMKAFGELCPNTAPLPQLVTEALQ TGTEWFHLKQHHQPMVQGIPEAGKA LLGLVQDVIGDLHQCQRTWDKIFHNELI SSTLKIHLFSMAFRELQWLVAKRVDHT TVVGDVVSPEMGESLQLYISLKECQL RMSSSERDGV\ALDNFHRWFQPAIPSWL QKTYNEALARVQRAVQMD\ELVP\LGELT KHSTSAVDLSTGFAQISHTARQLDWPDP EEAFMITVKFVEDTCRLALVYCSLIKAR ARELFFRARRTKARAANMLCVVNDME QLRLVIGKLP\AQLAWEALEQRVGAVLE QGQLQNTLHAQLS\GALAGLGHE\RTG\ VRTLAE\QLEVGI\AKHIQKLVG\RESVLP EDAILPLMKFLEVELCYMNTNLVQENFS SLLTLLWTHTLTVLVEAA

7003	15054	A	769	193	363	IPLALSTGNGTLLFF*DRVSLSPLECS GVISAHCNLCPLGSSSYSAALASQVAGI
7004	15055	A	7690	31	510	GDHASDKETITVNIYAPNIRACSKYIKQT LTELKGEVDSNVITAISILRFQQLPTLIKT ESLRNRNSSSSSSSSSSSSSSSSSSSSSLKSLP TKESIGPDGFTDEFYQTFKEELK/PKSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSPEKDATRE ENYRPISL
7005	15056	A	7691	2	189	TYHIDRIKDKSHMIISIAATEKAFDKIEHPF MIKALSQLEVVGMTNVIKAIYKKS MANI TQQ
7006	15057	A	7692	3	409	NTANRAARVSASIEDSPDNSETLPPDES RNGENAKRFAIDIGGTLTKLAYYSTVQH KVAKGRAFDHSGKDTERDTSRPMRVQF KKRALLDGTSLRRRKPTPKPAWTSSKTIS STQRP/EVIQATGGGAYKVKDLI
7007	15058	A	7693	88	480	KEELYGDFEDLET/G/DVHKGKSGPDTQN EDIEKQDEIDPDEKKSAKKKHLDKKRKL KEMLDAEYDEGESTYFDDLKGEMQKEA QMRLKNHRWYKKILKSQDPIIFSVGWRR VHTILLYIEDHNGRQRLKY
7008	15059	A	7694	1	1068	MAANRDKDFIHRRCGPESQSEAVPQGLC RAERSSALAMLSGSPVPRRTQLRPGKGTQ RRCRRGGEADSGGEAVGGGAERRSAA ARRRGRRRGGEAVGGGAERRSAA ARRRGRRRGGEAGGGGAEEARR AAAAARRAAARRAAARRAAARRAA AARRIAESGGEAHSRGEAHSRGEAHSRGE AGAERRRRLHSPALKTHPGQSSEGHVE YKLNHVEFEDQDDEARVQYEGFRPGMY VRVEIENVPCFVQNFDPYPIILGGLGN SEGNVGHVQMRLLKKHLWYKKILKSQD PFISSVGGRRFQITPLYYIEDHNGRQRL KYTPQHMHCGAAFWGKI*LG*LAYCRD
7009	15060	A	7695	66	844	KEELYGDFEDLETGDVHKGKSGPDTQN EDVEKKEEIDPDEESAKKKHLDKKRK LKEMFDVEYDEGESTYFDDLKGEMQKQ AQITAYRFSPTPSCTLNHAEFEDQDDE ARVQYEGFRPGMYVCVEIENVPCFV*N FDPYPIILGGLGNSEGNVGYVQVGPFA AYLVPEALWISPPSILPSHPPQMRLLKH RWYKKILKSRDPIIFSVGWRRFQITPLCYI EDHNGRQRLKYTPQHVRG/AAFWDKI CLQ*LAYC
7010	15061	A	7696	1	1177	LRMRLGTRSALWACRGWGQQHMAW LTEQPLGVLFPEELYGDFEDLETGDVHK GKSGPDTQNEIDIEKEVKEIDPDEESA KKKHLDKKRKLKEMFDAEYDEGESTYF DDLKGEMQKKAQLNHVEFEDQDDEAR VQYEGFRPGMYVRIEENVPCFVQNFDP PHYPIILGGLGNSEGNVGYVQMRLLKHR WYKKILKSRDPIIFSVGWRRFHTIPLYIE DHNGRQRLKYTPQHMHCGAAFWGPIT PQGTGFLAIQSVSGIMPDRVAATGVVL DLDSIKIVKKLKTGFYKIFKNTSFIKG MFNSALEVAKFEGAVIRTVSGIRGQIKK ALRAPEGVFRASFEDKLLMSDIVLMRLS TCSIPA/FY/NPVTSC*TIGEKHLVRMRPR P
7011	15062	A	7697	163	371	KGTTKL VVKLSDFKSYFAIVIKTVRN/W HKYKHIDQWNRIQNPEINPHIYQMIFK KRAKNKQWKDGL

7012	15063	A	7698	270	1479	PGCAFSSSGTSRQLAPVLGYLGSRQKHS LPDLPHYDYGALEPHINAQIMQLHHSKHH AAYVNNLNVTEEKYQEALAKGRFQAER EKNVVCFTNF*GDVTAQIALQPALKFNG GGHINHSIFWTNLSPNGGGGEPKGWYICA PLSTTSCTVGIDVISWAL*QKIF*IHVI*HF TVIIGNLFICGWFWDFFFNRLLEAIKRD FGSFDKFKEKLTAAASVGVQSGSGWGLG FNKQRGHLQIAACPNDPLQGTGTGYI*IG LSVVPVWKTSPLLKNVDSKVKGKRTVY QGDGHYVNHHPNQVFWGRGAVKALNR NLKGAPDLELDGESRANCGEKGREESER SGR*AWQLCSVTGAPFFLTGLIPLLIDV WEHAYYLQYKNVRPDYLKAIWNVINW ENVTERYMACKK
7013	15064	A	7699	94	330	KSRSYKKMCLHFNFSGDVTAQIALQPAL KFNGGGHINHSIFWTNLSPNGGGGEPKG WYILVHPYLHFVHSRNRLLIYWR
7014	15065	C	77	183	350	MYGLPGFFYAHRXXXXXXXXXXXXXR HAPALRVNTRSHSPTGGRVALPQPWL MV*
7015	15066	A	770	260	360	SPN*SPNVIFDS*DSPEKTAATVRGDFYV TGDRGMMMD
7016	15067	A	7700	33	807	GPRAAQERHSLWWLQRQLQIGGIGS STSTSSMLSRVCGTSRQLAPVLGYLGS RQKHSLPDLPHYDYGALEPHINAHIMHLH HSKHHAAYVNNLNVTEEKYHEALA/RG DVTALQIALQPALKFNGGGHINHSIFWTN LSPNGGGGEPKG/EELLEAIK/DFGSFDK FK/EKLTAAASVGVQSGSGWGLGFNKER GHLQIAACPNDPLQGTGTGLIPLLIDV WEHAYYLQYKNVRPDYLKAIWNVINW ENVTERYMACKK
7017	15068	A	7701	2	436	SGRGASLRPGVRPPSVSWEPYSGPGSTPP PPSSRSKDVGKPAQSWVRGGSTQPN TGQ LPKEGLSTPHVPVPRAGIPSSRQALLSSGN PGTRAPSAPALRPEAQASPAEFPGAP/SPE LGGERLGGARFQEP PPQAASFPGAAAT QA
7018	15069	A	7702	1	389	PGSSRQRCWHQPCFACQACQALINLIY FYHDGQLYCGRHHAELLRPRCPACDQLI FSWRCTEAEQQRWHENHFCCQDCAGPL GGGRYALPGGSPCCPSCFENRYS DAGSS WAGALEGDAFLGE/HWKVTHSLGR LDS TN
7019	15070	A	7703	1	1217	MGGHLANVPTGTSLQQTGLMEKHFTSG KQLLKTLONNIPQTTERTHNGWHQAWL LVFSCVRSFYVAALFAVGLGCGIHWFC AVFSVCAGHSTAVVSLPGSQQHLSANM FVALHSYSAHGPDDELQKGEQVRVLG KCQDQWLRGVSLVTGRVGIFFNNYVIPI FSTPSQLSGCREVGPTLVKPVVHKMGVY GWEEGSISEGDH GKAVPSNPS/VVPTAIV NPVRSTAGPGLGQGSRLKGRSSMRKN GSLQRPLQSGIPTLVVGSLLRSPT/MGPS ASAVPILPATGDPLLPLSRGGGDGVQA/S PSRGSPSRASAGAVRPGSTPRPAPSLWK TKKSPSRVS/LLPKPPASAPPSILVKPENS RNGIEKQ/DQNREISEIQALLPPNITLPYPT SGKPEQPSLPQCVPA
7020	15071	A	7704	27	211	FHIVQYFNFFVCLFVCLFETESTLSPRLEG SGVISAHCNL/TLPPGFNNSCASASRVAG TTQ
7021	15072	A	7705	27	211	FHIVQYFNFFVCLFVCLFETESTLSPRLEG SGVISAHCNL/TLPPGFNNSCASASRVAG TTQ

7022	15073	A	7706	1	514	LSQSEKNYYSSRFSPDSQYIDNRSVNSD RASQ/ARERAPRLNHPPEQIDSHSRLPHS AHPGKPPSAPASAPQNVFSTTVSSGYNT KKIGKRLNIQLKKGTEGLGFSITSRDVTI GGSAPIYVKNILPRGAAIQDGRKAGDR LIEVNGVDLVGKSQEEVVSLLRSTKME G
7023	15074	A	7707	65	515	DPRVRAAGILYEFTWNQFCDWYLELTGP VMNGGTEAKLRGTRHTLVTVLEGLLRL AHPPIPFITETIWQRVKVLCGITADTIMLQ PFPQYDASQVDEAALADTEWLKQAIWA VRNIRAEMNIAPGKPLELLVAGICTRNP TSVNNRGL
7024	15075	A	7708	2	505	EPVKKIFNYIIHVFRNIMDFKFLVFAV VFLFFYARTLSQSPTFYSSGTVLGVLM TLVFLVLLVKRFIPKYSTFRALMVGCVF ASVYIVCQLMEDLKWLRYDNRIYVLGY VLIVGFFSFVVCYKHGPLADDRSRLLM WMLRLLSLVLVYAGVAVPQFAYAAAIL
7025	15076	A	7709	2	417	EPVKKIFNYMIHVNRNIMDFKFLVFAV GVFLFFYARTLSQSPTFYSSGTVLGVLM MTLVFLVLLVKRFIPKYSTFWALMVGCVF WVASVYIVCQLMEDLKWLWYENRIYVL SYVLIVGFFSFVVGTSMSGPLADDKSRNL
7026	15077	A	771	80	357	GPPFFFFGDRVLLCHPRLECSGMITAHCS LKLLCSQ*PSHNSLLNSWEHRHMPPLA KFFFHQQTKL*KK*NKNRSLESAPLSVFI KKVTTT
7027	15078	A	7710	14	426	RPIRMAVKQKISMLCHVNPEQVICIHDVS STYRVPVLLLEEQSVKYFKERLHLPIGDS ASNLLFKWRNMADRYERLQKICSIALV GKYTKLRDCYASVFKALEHSALAINHKL NLMYIDSIDLEKITETEDPVKFHE
7028	15079	A	7711	61	204	GRYAYVWHCPQGPGLTPLVADTSGA YFRREGLGSNYLGGRSPTEVS
7029	15080	C	7712	537	710	MCHHTQPIFVVFVEMRFYVVGQAGLEV LTSGDPPVSAAQSTGITGLSHRAQPSSVR F*
7030	15081	A	7713	788	894	KHG\WLGTVAHTCNPSTLGGQGGWIMR SGVQDQPGQ
7031	15082	A	7714	1	452	SPVPQLIVPTVLSVVLLEPFLGAPLPANR LWTHLWAPRAWKQSPWQAP\GLGRLPS SLGIGSCGAPGAYTRPDIRLHDKACPAE HGGGRGPGEAASRPLTAPSPGGCPEGL GTTSPQSRRTASSGGSYRSFTDPPPPPIC HHRFFLTL
7032	15083	A	7715	48	421	DLQSSQGQQPRVQSWSPGRGIPQLPC AKALYNYEGKEPGDLKFSKGDIIILRTQV DENWYHGEVNGIHGFFP\TNFVQIKPLP QPPQCKALYDFEGKDKEADKDCLPFA KDDVLTVIRRD
7033	15084	A	7716	2	492	LTLNITITPSLARGNFYPLEGGRVLLDGK PISAYDHKYLHRVISLVSQEPVLFARSIT DNISYGLPTVPFEMVVEAAQKANAHGFI MELQDGYSTETGEKGAQLSGGQKQORVA MARALVRNPPVLILDEATNALDADSRDL IQHALS\GNLRKHRDFLSPVWP
7034	15085	A	7717	2	721	EGKVEEPENPAAKEKCEGKEEEEETDGS GKESKQECEAEASSVKNELKGVEVGAN TGSKSISEKGSEE\VKRKSWRMTNKSEES SQPEAGAVSRGNFDEESNASMSTARDE TRDGFYMEDGDPSVAQLLHERTFAFSF WPKDRVMINRLDNICEAVLKKGKWPVN RRQMFDQGLIPGYPTTVDSPLQKRSF AELSMVGQASISGSEDITTSPLSKEDAL NLSVPRQRRRRRRKIGN

7035	15086	A	7718	111	381	DRGLASFAQGLEVQWHNLSLQPS\PPV LRRF/SPCLGLPRGCDYRPVPPHQANFCI VSRDGFYHVGQAGLELLTSSDPPTSQSQ SAGITGV
7036	15087	A	7719	1	190	ENKEEGQLPSSFYEASIILTLKPKDKSTK KS/SYRPT/SLMNFDAK\IFNMFTNRIQQ YIERIHH
7037	15088	A	772	80	357	GPPFFFFGDRVLLCHPRLECSGMITAHCS LKLLCSQ*PSHNSLLNSWEHRHMPPHLA KFFFHQQTKL*KK*KNRSLESAPLSVFI KKVTTT
7038	15089	A	7720	1	2499	MAAAVAAPLAAGGEEAAATTSVPGSPG LPGRRAERALEDAVATGTLNLSNRRLK HFPRGAARSYDLSITQADLSRNRFPPEVP EAACQLVSLEGLSLYHNCRLCLNPALGN LTALTYLNLNRNQLSLLPPYICQLPLRVLI VSNNKLGALPPDIGTLGSLRQLDVSSNEL QSLPSELGLSSLRDLNVRNQLSTLPEE LGDPLVRLDFSCNRVSRIPVSFCRLRHL QVILLDSNPLQSPPAQVCLKGKLHIFKYL STEAGQRGSALGDLAPSRPPSFSPCPAED LFPGHRYDGGLD SGFHSVDSGSKRWSG NESTDEFSEL SFRISELAREPRGPRERKED GSADGDPVQIDFIDSHVPGEDEERTVEE QRPELSPGAGDRERAPNSRREEPAGEE RRRPTDLQLWQERERRQQQSGAWGAP RKDSLLKPLRAVVGAAAVSTQAMHN GSPKSSASQAGGCSGAGSPAPAPASQEP LPIAGPATEPAPRPLGSIQRPNSFLFRSSS QSGSGPSSPDSVLRPRRYPOVPDEKDL TQLRQVLESRLQRPLPEDLAELASGVIL COLANQLRPRSVFPIHVPSPAVPKLSALK ARKNVESFLEACRKMGPVPEADLCSPSDL LQGTARGLRTALEAVKRVGGKALPPLW PPSGLGGFVVVYVLMMLLYVTYTRLLD PRSPQVAWEVAPSRMTPLAPWDPKYE KAGPRPVVWSWGQTCGTGWGAQGA VRWPEAPVLCPPHPRGPTVAQEPRSQAGRC VTPHSGRCMKQPRAGVSGPWPLPQGTG MDSRRPQM QGSRWCAVKMSSSRTLCCP GGSVFPCTCPRPPSR
7039	15090	A	7721	1	647	RPPVPVQVPDKDLMTQLRRVLESRLQR \PLPEDLAELASGVILCOLANQLRPRSV PFIHVPSPAVPKLSALKARKNVESFLEAC RKMGPVEESLCQPHHILEEGAPGRGVL LIIAAVVQRPAGPALGVKVGAAQGP PRPGPREQKTRLGSALSEKHVVRVAWA WARLGLPRLAASGVEGLGGRTCGCRR CRVSRNKQKPEALWKRGC KIKKKL
7040	15091	A	7722	3	450	SRLVQRGGIPLGGWRMGVRRGTGQVGP TMHPPPVSGASP/PPPPPPPPPHHHPHL LRTSCVPSGLYAQSSSSSSSSSSSSSS SSSSSSSSQLNKL PKFQVSSPNSPTLSSSF SFLPFFPASSLTRQFFIECLPGAGMSQVL GK
7041	15092	A	7728	3	368	LLGQAVKYGVNPGPYGGTTARKLYEKK LLRLREQGPESRCSTPVPTISSAENARQ NGSNDSGRYSVNEEDSKIELKLEKRDPL KGRAKTPVTRKQRRVELSESYSQAGMD EGVWSSGSSKG

7042	15093	A	7729	1	1492	ALMDEILMLQDEINELQSSLAEBLVSESC EADPAEQLALQSTLTVLAERMSTIRMK SGKRQLLEEKLNQLEEQRQEQALQRY RCEADELDSWLLSTKATLDTALSPKKEP MDMEAQLMDCQNMLVEIEQKVVALSEL SVHNENLLLEGKAHTKDEAEQLAGKLR RLKGSLLQLRALHDKQLNMQQGTAQE KEESDVDLTATQSPGVQEWLAQARTTW TQQRQSSLLQQKELEQELAEQKSLRSV ASRGEEILQHSAAETSGDAGEKPDVLSQ ELGMEEETSAEDQMRMKWESLHQEFS TKQKLLQNVLEQEQQVLYSRPNRLLSG VPLYKGDVPTQDKSAVTSLLDGLNQAFE EVSSQSGGAKRQSHLEQKLYDGVSA TSLWDDVEERLFVATALLPEETETCLFNQ EILAKDIKEMSEMDKNKNLFSQAFEN GDNRDVIEDTLGCLLGRSLSDSVVNQR CHOMKERLQQLNFQVSKILSKDT
7043	15094	A	773	810	1075	SLRSSKTQPRQHGKTSSLLKIQKISRVW* RTLLLGKLRQENCLNPGGGGCSEPRLHH CTPAWATE*DSGSQKKKKGQGRKSCHF SVRT
7044	15095	A	7730	1073	1233	PYSGLGIFFFLRHGLTSPRLGCSELRLC HCTPAWVTSTKTVSKNKKQKNSR
7045	15096	A	7731	34	445	STHASGDHSPHICS/TG/SYFFANSLPSKG PTILMPVNTAALTVPANPASVITVPSKLP TSSKPPGAVPSNALINPAPSKLPINSTR GMVPSKVPTSMVLTKGCASVTPTDGSSI NEETPMAPTPAGAVGSSLAWLDT
7046	15097	A	7732	3	416	
7047	15098	A	7733	1	2115	
7048	15099	A	7734	1	662	SLFASNVGSGHFIGLAGSGAATGISVSAY ELNGLFSVLMALWVFLPIYIAGQVTMP EYLRKRFGGIRIPILAVLYLFIYIFTKISV DMYAGAFIQQSLHLDLYLAIVGLLAITA VYTVAGGLAAVITYDALQTLIMLIGALT LMCYSFAAVGGMEGLKEKYFLALASNR SENSSCGLPREDAFHIFRNPLTSDLPWPG VLFGMSIPSLWYWCCTDQGG
7049	15100	A	7735	3	315	
7050	15101	B	7736	107	388	SKKLLFAGSRSQLVQLPVADCIKYRSCA DCVLARDPYCAWSVNTSRCVAVGGHFG SLLIQHVMTSDTSGICNLRGSKKVRPTPK NITVVAGTDL*
7051	15102	A	7737	98	473	IRGDTISYTVRSPPPRAGREYAMSTAGPP SPFSPLTQPPALYREEGKYKIPLNPGAK/ YVRAPPNPSQTHSRLHFSPHPENIHRP WSRTRPTSPALPLKGHSTLSTPPYVHR CPTFGGSGG
7052	15103	A	7738	2	433	GDTGHRERSLGLLREKHTWGPHPQATP QAAVPSSRYTQPGPQGWVTVQGQPPSR GEHPRPAAGLSQLLHLGVPDGLGQSG DCEVTPKPSYSFPGTSGAGPPGTMGSSLP GNGNWDEEAHTLPQGGQEGMNEGGVPW RLIFR
7053	15104	A	7739	328	496	HNTDLFIY/CIYEMESCSVTQAGVQWRD LGSLQPPPLGCKQCSCLSLPSSWGLQVP ATT
7054	15105	A	774	499	946	LWLRPRGAGIAGAGICLRREGTWLLPLR SHGGKCEAASPWVSQRLELLQKPSALW WPLGLLHVHIFWKYTCAGSFLAGKLLRI TFNFFLFFFLPPISCIFYLFLFFFRDGV SLCCSGWP*TPGLKQSSCLSLPSSWDFKC TPLCLL
7055	15106	A	7740	1	372	MEKEEPPGVERKKENRVKEVIHKNRKG EGPPAGAALPLGGRGEGP/SPEPPGGAAA PRAGERCGLAGASPEPAETGTREPRPR GASAARKLAAAAPVGLLRPGCPRAGR

						RAPWPGKRLSEPRV
7056	15107	A	7741	34	366	ERPGPVGTLTPTQGPHPAGP/S/GRPGS LGFTWPYPGPCTWRPAWFPARPPAGSI TPPGFCTHTLVSLDPGRDCPSPTGDCDS LCPHPDASPGIKAFCAQGKKKKKKK
7057	15108	A	7742	2	462	IRARNYKLRKVMVDGDIPPRV\KKDAHE LILDFIRSRPLKQVSERRLRRLPPKQRS HEKILEEIKQERRLRPVRGE/ELGCPRVW LS/SPASSTPAEMPSPPPASTCQSQMLGA APSAR/VPRVLLKAPT LAEMEEMNTSEIR AQGPRNVTAHNQ
7058	15109	A	7743	2	1002	TGPGVPMCQVGEDYGEPAPEEPPAPRP SREQKCVKCKEAQPVVIRAGDAFCRD CFKAFYVHKFRAMLGKNRILFSGEKVLL AWSGGPSSSMVWQDLEGLSQDFAKRL RFVAGVIFFDGAACGQSLEERSKTLAE VKPILQATGFPWHVVALEELVGSEGAY KAAVDSF/RPAAACAGGPGVVLARLKG RNSHSP/SLDPQNLARPPAPAQTEALSQ LFCSVRTLTAKEELLQTLRTHLILHVARA HGYSKVMTGDSCTRLAIKMTNLALGR GAFLAWDTGFSDERHGDVVVVRPMRD HTLKEVAFYNRLFSVPSVFTPAVDTKAP EKAS
7059	15110	A	7744	2	397	APDTPDSSKFQRSK/NYKGPLDPQRGKIE DKVNKSKVILKEPGLEDLGTYSDIVTDA DEDISASHTLTEELEKLKLSHEIRNPGI KLISGWNIDILERGEARLWLELEKCPAA ELHLIVHNKEIFRLPNR
7060	15111	A	7745	1	849	QKKELGHVNGLVDKSGKRRTTSPSSDTDL LDRSASKTELKAIHARILERRASRPGTP TSSASTETPTFEQNDVDEDIHDVDEEPPVA AEPDYVQQLRRPFELLIAAAMERNPTQ FQLPNELTCTPALPGSSKRRRKEETTGN VKKTQ\RELDHNGLVPLPVKVCFTCNRR CRVAPLIQRDYCPLLFHMDCLEPPLTAM PLGRWMCSNHIEHVVLNHNMTLSYRC QVFDRFQDTV SQHVVKVDFLNRHKKH PPNRRVLQSVKRRSLKVPDAIKSQNQVS TP
7061	15112	A	7746	1	201	MKKKKEEEEEEEEEEEEEEEEEEEEEEEE EEEEEEEE/EEEEEEEEEEEEEEEEEEEE EEEEKKKKKKHNFKILSNLYIFIHIFCSKK
7062	15113	A	7747	3	112	KRTRLGMMAHA/CNLSTLGGQGGRVTR SGVRDQPDLK
7063	15114	A	7748	1	1476	LTVIRRV DENWAEGMLADKIGIFPISYVE FN SAAKQ LIEWDKPPVPGVDAGECSSAA AQSSAPKHSDTKNTRKHSFTSLTMA NKSSQASQNRHSMEISPPVLISSNPTAA ARISELSGLSCSAPSQVHISTTGLIVTPPPS SPVTTGPSFTFP SDDPYQAALGTLPPLP PPLLAATVLA STPPGATAAAAAAGMGP RPMAGSTDQIAHLRPQTRPSVYVAIYPY TPRKEDELELRKGEMFLVFERCQD GWF KGTSMHTSK\IGGFPGNYVAPVTRAVT NASQAKVPMSTAGQTSRGVTMVSPSTA GGPAQKA/QGNGVAGSP/SVVPAAV VSA AHIQTSPQAKVLLHMTGQMTVNQARNA VRTVAAHNQERPTAAVTPIQVQNAAG LSPASVGLSHSLASPQAPLMPGPATH TAAISIRASAPL\ACAAAAPLTSPSITSAS LEAPSGRIVTVLPGLPTSPDSASSACGN SSATKPKDKSKK

7064	15115	A	7749	139	6503	LSGITKMTLHATRGAALLSWVNSLHVA DPVEAVLQLQDCSIFIKIIDRIHGTEEGQQ ILKQPVSERLDFVCSFLQKNRKHPSPEC LVSAQKVLEGSELELAKMTMLLLYHST MSSKSPRDWEQFEYKIQAEALAVILKFVL DHEDGLNLNEDLENFLQKAPVPSTCSST FPEELSPPSHQAKREIRFLELQKVASSSSG NNFLSGSPASPMGDILQTPQFQMRRLKK QLADERSNRDELELELAENRKLLTEKDA
7065	15116	A	775	56	425	GQSPPGHWGHVAQARELLRPGR LPCWV PDGHTPVRPVSGPEPPTGSRILSGEESPSR PPSSQAARPQPGQPRDPSSLRIPLLRP* LSQSGLASSGSLRAGALPRRPPGPALLS PTPCTSI
7066	15117	A	7750	1	5290	MTLHATRGAALLSWVNSLHVADPVEAV LQLQDCSIFIKIIDRIHGTEEGQQILKQPV ERLDFVCSFLQKNRKHPSPEC LVSAQK VLEGSELELAKMTMLLLYHSTMSSKSPR DWEQFEYKIQAEALAVILKFVLDHEDGLN LNEDLENFLQKAPVPSTCSSTFPEELSPPS HQAKREIRFLELQKVASSSSGNNFLSGSP ASPMGDILQTPQFQMRRLKKQLADERSN RDELELELAENRKLLTEKDAQIAMMQ
7067	15118	A	7751	241	6574	LSGITKMTLHATRGAALLSWVNSLHVA DPVEAVLQLQDCSIFIKIIDRIHGTEEGQQ ILKQPVSERLDFVCSFLQKNRKHPSPEC LVSAQKVLEGSELELAKMTMLLLYHST MSSKSPRDWEQFEYKIQAEALAVILKFVL DHEDGLNLNEDLENFLQKAPVPSTCSST FPEELSPPSHQAKREIRFLELQKVASSSSG NNFLSGSPASPMGDILQTPQFQMRRLKK QLADERSNRDELELELAENRKLLTEKDA
7068	15119	A	7752	775	1128	REGLYLSRFPFHSKLPRTPQPDGTSVPGE ASPISQRLPPKVESLESYFTPIPARSQAP LESSLDSLGDVFLDSGRKTRARRRTTQI INITMTKVRLLGQGLQGSNSHFLSRASLQ
7069	15120	A	7753	331	530	LKIFFFFPSGGDMSKNVQSQMAKLNQQ MAKMMDPRVLHMHMGGMAGLQSMMR QFQQGAAGNMKGMM
7070	15121	A	7754	1	1517	MVLADLGRKITSALRSLSNATIINEEVLN AMLKEVCTALLEADVNIKLVKQLRENV KSAIDLEEMASGLNKRKMIQHAFVKELV KLVDPGVKAWTPTKGKQNVIMFVGLQG SGKTTTCSKLAYYYQRKGWKTCLICAD TFRAGAFDQLKQNA TKARIPFYGSYTEM DPVIIASEGVEKFKNENFEIIIIVDTSGRHK QEDSLFEEMLQVANAIQPDNIVYVMDAS IGQACEAQAKAFKDKVDVASVIVTKLD GHAKGGGALSAVAATKSPIIFIGTGEHID DFEPFKTQPFISKLLGMGDIEGLIDKVNE LKLDDNEALIEKLKHGQFTLRDMYEQFQ NIMKMGPFSQLGMIPGFGTDFMSKGNE QESMARLKKLMTIMDSMNDQELDSTDG AKVFSNNSGRIQLARPSCVSTSDVQELL TQYTKFAQMVK*MGGIKGLFKGGDMS KNGARSQIAK\LNQQMAKMMDPRVLH HMGGMARLQSMMRQFKQGAAGNMKG MMGFNNM
7071	15122	A	7755	42	449	FGLFNRLPYPPQHPKPHYSRIPGA/HAPP GPQNPSTFLSPLYCWGPSSKSPGAPKRC PSSISTPPSATPPRTL TGSWPGQRCQKD GEAQSYQVRQDPTASQPAGQSRLPSWS GNQTYLQGLHGRGPRARTLQLPG
7072	15123	A	7756	3	358	LLIHSSTHPPTYPIHPGHHFFLPLFFPFF FSFSPSFHPSTHPLIHLSTYPIHPSVYPPV PLSLSVYSSIHLPTPEYFLFQPVAH/RRSH GRISSMPGEQSPIPRLWKSPSSKPPFPW

7073	15124	A	7757	1	1668	MLVHTQPPEVHQYNHSSAATRSRFRQL QLQLIWGWSQVLPMSAFYQIIQASGLRL HACVTPGAGTHSLPFLPSVGNLPSNKG SRVYCFFAADLFDILLPMLNIYQEFVRNH QYSLQVLANKQNRDFDKLLKQYEANP ACEGRMLETFLTYPMFQIPRYIITHELL AHTPHEHVERKSLEFAKSKLEELSRMIV EGCDILLDTSTQTFIRQGTMKNSNTIIVKH EWGRQLHSDWTL LSGPDILCSSKEDRS AWPTAVAVPSADDTQAKAQEKLALSKP FHIRLGT MSEQS*SLHQ RTEQEGKLPCS GHHRTFTLQIPLNSSAPPLSTAWRTDGG QCPLLCTGFCFCNSHSCSRTWEAPPEEE DDICLPTSQARCNEYVGLRKSIMLVQKK DKKNITCRSLTPSEEGLTIVKVLVFSEI MFNLDFKIVVEPPDAAFTV VLLAPSRQ EKAAWMSDISQCVDNIRCNGLMTIVFEE NSKVTVPHMIKAKVNGCTMSHLDNSLT LPFTDTEQGRSSSWTAGHVKAPCPLHAQ LPLLASFLQELQAFARMSPPY
7074	15125	A	7758	1	2247	
7075	15126	A	7759	1	3711	
7076	15127	A	776	3	383	QGFRKLPLKTTTGKEKTHSCIVGLGHVN SGKTTTTGHLIYKCGGFDKRTIDKFTEA ADKAKGSFKNAWDLKDKAERERGITID ISLWKYETSRYYVTIIVAP*LIDFIINMSG TSQAD CAGLIV
7077	15128	A	7760	1	226	SLEFSQSKLQYLSRVKHDEVSDTENIRIN LAJERMIVEGCDILLDTSTQTFIRQWDHEN QQHNH SKARVGQAVTF
7078	15129	A	7761	41	1065	GRLGPHWSPQREGEAQAWQAAGPEPCP AGRQLRPGEKSSTAAPGPGAKLPPTARG QGRPAALSAGPTEPAEPTPTRNSGWPA SAPPV/PRWGQPLLGVPGPEAGRYSAVAP SLSALRFPWWPQDVPVAVQSATDDAY EALSPSSCAFAMPSSVPAYPSITVTPDEE QNLNHYIQVLENLVRVSPSGEPGREKKS NSPKHVYSIASKGSKFKELVTHGDASTE NDVLTNPISEETTTFTPTGGFTPEIGKKKHT ESTPFWSIKPNNVSIVLHAEOPYIENEPE PEPEPAAKQTEAPRMLPVVTESSSTSPYVT SYKSPVTTLDKSTGIGDLYRIRRCSSALR
7079	15130	A	7762	3	342	KERSREKTGGGGDLQREVAREDRRWRR SQREDAREDRRWRRSSERGLRRQAVA EIFRERDAREDRRWRRSSERGRPRRQ/RG GGDLQREDAREDRRWRRSSEREMPEKT GGGG
7080	15131	A	7763	205	338	NPYIYSQLFFDKGTKNIHWGRDSL FNKC CSENLSIIRKIKLDP
7081	15132	A	7764	1	666	GDPGAGPGDHNRFDCGPQPPPPKCELL HVAIVCAGHNSSRDVITLVKSMLFYRKN PLHLHMTGAVARNIMETLFTWMVPA VRVSFYHADQLKPQVSWIPNKHYSGLY GLMKLVLPALPAELARVIVLDTDVTF SDISELWALFAHFGVILLRLDRLRQAG WEQMWRLTARRELL/GLPATSLADQDIF NAVIKEHSGLVQRLPCVWNVQLSNHTL AE

7082	15133	A	7765	3	1289	INFPTTSGLDGDPGAGPGDHNRSDDCPQ PPPPRCELLHVAIVCAGHNSSRDVITLV KSMFLYRKNPPLHLVTDVARNILETL FHTWMVPAVRVSFYHADQLKPQVSWIP NKHYSGLYGLMKLVLPALPAELARVIV LDTDVTFASDISELWALFAHFSDTQAIGL VENQSDWYLGNLWKNHMPWPALGRG FNTGVILLRLDRFRKAGWEQMWRLTAR REL\LSLPATSLADQDIFNAVIKEHPGLVQ RLPCVWNVQLSDHTLAERCYSEASDLK VIHWNSPKKVL\VKNNHVEFFRKIYLILL ENQGNLLLEEVFLCPSQPPTGADQLQR PLPQLDEEDPCFEFRQQQLTVHRGHLLF LPHEPPPPRPHDVTVAQLSMDRLQMLE ALCRHCPGPVSLALYLTDAAEQQLHFV EANGVGIDRV
7083	15134	A	7766	530	820	
7084	15135	B	7767	1	954	MATAATIPSVATATAAALGEVEDEGLLA SLFRDRFPEAQWRERPDVGRYLRELSGS GLERLRREPERLAERAQLLQOTRDLAF ANYKTFIRGAECTERIHRLFGDVEASLGR LLDRLPSFQQSCRSRAARNAVSIMAAG AGTAGPASGPGVVRDPAASQPRKRGRE GGEGARRSDTMAGGGGSSDGSRAAGR RASRSSGRARRGRHEPGLGGAERGAGE ARLEEAVNRWVLKFYFHEALRAFRGSR YGDFRQIRDIMQALTFFRGTLQSSKQE LSLDLSSESIKNIQVNITYSLRSRDCANFD ILYDIKPF*
7085	15136	C	7768	97	408	MKTKVQPRLTVRVARNCSPKNKAHDNK QNWSWEEDSQITEPSAGLNSSQEAVSAP PSKPTVFNQPLPGEKNPKYEDLLCRNFG AGWWSWLGLVLLPGIKETFS*
7086	15137	A	7769	1694	1866	PLIACSFLLFLFFFLRQSLGSVHPGLGV QWRDLGSLRPPFGLTQFSCSLPRSWN
7087	15138	A	7770	106	317	CSAETEREIGRRK*CIQESSPSPLSIKKCP ICKAD*YL*SHLGATADAAPLQQLSSL*Q DLPSYREADL
7088	15139	A	7771	321	449	
7089	15140	A	7772	2516	2717	FVKSKALAFFLSFFFFFLKQSLSVTQAG VQWPVDSLQPLPPRFKRFSCLSLPSSWD YRCVPQCPAN
7090	15141	A	7773	3	282	
7091	15142	A	7774	1	1126	MRPGSLTDVTLEPRSEGGKEKSIPERRNG PCKDPGAAACKLCLTSVLFATNRHMYL HNLLLRQGVSRASRQSALTQSSGTPAMY QCSKTYIYFQGIQVDYQEVTHTGPLSIEG SMLDIKTYIVNRGEHKNGVLEEAIATIL KEVLEGLDYLHRNGQIHRNSRKELNDIR FEFTPGRGPKGNDGECDEKHTTVLMRV EQQWDHTERKTQTQMSTEAKVNDTAD GVSQELFSAGLVDGHDVVIACPSRNLRL FIGIISTFPGAQAKTLGIVLDFSHTSHPT HLNVPRILPLLITISHPITFQAPLNSQLSSCI HPFAAIPASVLASLPVLISTARDPGTSH YSSALGFIGQIPAYMELSPVIGELCLSK VTE
7092	15143	A	7775	2	1622	
7093	15144	A	7776	1	698	MAAKLVGIEFDPCWVKMLMEKGHOKT REHNYPSEMEQSEKAGVTDNIQGGTKAL AGSRQSVANGKNSHCKENVTWLLIHYV QPMKPYEVFWIEFVTHQKATKYLCQLPT TSPDAVFPFGELLAELLKIPFVYSLRFSPG YAJEKHSGGLFPSPYVPVVMSELSDQM TFIE/RGRPTTLSETMAKADIWLIRNYWD FQFPHLLPNVEFVGGLHCKPAKPLPKTL GHGWDRAP
7094	15145	A	7777	1	1584	

7095	15146	A	7778	2	1627	AATGKQALHCIRMSMKWTSALLLIQLSC YFSSGSCGKVLVWPTEFSHWMNIKTILD ELVQRGHEVTVLASSASISFDPNSPSTLK FEVYPVSLTKTEFEDIKQLVKRWAE LPK DTFWSYFSQVQEIMWTFNDILRKFKCDI VSNKKLMKKLQESRFDVVLADAVFPFG ELLAELLKIPFVYRPRFSPGYAIEKHSGG LLFPSPYVPVVMSELSDQMTFIERVKNMI YVLYFEFWFQIFDMKKWDQFYSEVLGR PTTLASETMAKADIWLIRNYWDFQFPHPL LPNVEFVGGLHCKPAKPLPKEMEVEFVQ SSGENGVVVSLSGSMVSNSTSEERANVIA SALAKIPQKVLWRFDGNKPDITLGNTRL YKWIPQNDLLGHPKTRAFITHGGANGIY EAIYHGIPMVGVP LLADQPDNIAHMKAK GAAVSLDFHTMSSTDLLNALKTVINDPL YKENAMKLSRIHHDQPVKPLDRAVFWIE FVMRHKGAHLRVA AHDLTWFQYHSL DVTGFLACVATVIFITKCLFCVWKFVR TGKKGKRD
7096	15147	A	7779	1	187	SGRPFFFFGLPFLFFFFF*DRVSLLLPRL QCNGTISAHCNLC L PGSSDSPASARVAE LP
7097	15148	A	778	213	500	SKRCLSLGRGASSLEAAEHLSCCPQADG LSRSPQWASAPPRQLLSCPSAGRGPQL ARSPGSRRGPVWPPQGPQHSA LTI*AP AQRKRRKNG
7098	15149	B	7780	436	711	DVYKIGGIGTVPVGRVETGVLPKGMVVT FAPVNVTTTEVKS VEMHHEALSEALPGD NVGFNVKNVSVKDVR RGNVAGDSKND PPMEAAGFTAQ*
7099	15150	B	7781	26	384	MHHEALSEALPGDNVGFNVKNVSVKDV RRGNVAGDSKNDPPMEAAGFTAQVILN HPGQISAGYALYWIAIVDMVPGKPMCV ESFSDYPPLGRFAVRDMRQTVAVGVKA VDKKAAGLAS*
7100	15151	A	7782	3	523	FAPVNVTTTEVKS VEMHHEALSEALPGD NVGFNVKNVSVKDVR RGNVAGD/SKND PPMEAAGFTAQVILNHPGQISAGYAPVL DCHTAHACKFAELKEKIDRRSGKKLED GPKFMVPGKPMCVESFSDYPPLGRFAV RDMRQTVAVGVKA VDKKAAGAGKVT KSARKLOKAK
7101	15152	B	7783	32	188	MVVT FAPVNVTTTEVKS VEMHHEALSEA LPGDNVGFNVKNVSVKCVIWF L ASPX*
7102	15153	B	7784	60	209	MHHEALSEALPGDNVGFNVKNVSVKDV RRGNVAGDSKNDPPMEAAGFTAQ*
7103	15154	A	7785	3	313	
7104	15155	A	7786	13	555	
7105	15156	A	7787	3	366	IGY/NPDTVACV/PILGWNGDNMLEQSAN MPWFKGWK VTRKDGNASGTTLEALD CILPPTRPTDKPLRLPLQDVYKIGGIGTVP VGRVETGVLPKGMVVT FAPVNVTTTEVK S VEMHHEAQKAK
7106	15157	A	7788	1	513	EAGISKNGQTREHALLAYTLGVKQLIVG VNKMDSTEPPYSQKRYEBEIVKEVSTYIK KIGYNPDTVAFVPISGWNIA CKFAELKEK IDRRSGKKLEDGPKFLKSGDAAIVDMV PGKPMCVESFSDYPPLGRFAVRDMRQ TVAVGVKA VDKKAAGAGKVT KSAQK AQKAK
7107	15158	A	7789	1	1099	
7108	15159	A	779	1	615	

7109	15160	A	7790	1253	2560	SLVMLPLFDMVPGQAHVLLRASQDYPPF GSLCWFVIMRTDSCGWVSIKSSGQKRLL ELIDAPGHRDFIKNMITGTSQADCAVLIV AAGVGEFEAGISKNGQTREHALLAYTLG VKQLIVGVNKMMDSTEPYSQKRYEEIVK EVSTYIKKIGYNPDVAFVPISGWNGDN MLEPSANMPWFKGWKVTRKDGNASGT TLEAVDCILPPTRPDKPLRLPLQDVYK IGGIGTVPVGRVETGVLKPGMVVTFAPV NVTTEVKSVEMHHEALSEALPGDNVGF NVKNVSVKDVRRGNVAGDSKNDPPME AAGFTAQVIILNHPGQISAIGYAPVLDL HTAHIAKFAELKEKIDRRSGKKLEDGP KFLKSGDA/APLVDMVP/GKPHVCLRSFS DYPPPLGRFAVRDMRQTVAVGVIKSS/VD KKAAGAGKVTKSAQKAQKAK
7110	15161	A	7791	39	362	AEKWARNMPFFDLQMTDQVSLRLTW SELFGLNAAQCSMPLNEAPLLAAAGLQ AYPMSADRRVAFMDHIRIFQEQAQKFR LHVGSPEKQCLKAIVLFTSNTWGRG
7111	15162	A	7792	19	384	FISSIKFIMSFNFTSLFHFISLQGFISSHYI SSK/SHFISFHVISSVHLIFSSHHFMGSSQ LFSSDHFIISCHRFMSYLLRSVQFHFNISF HYFRSSHLITSCHHSSCNQNSSSSQHIFIS
7112	15163	A	7793	16	450	TQGS HQSPPPGS/PHAHTCCPGRGGEA GGTGSLLGQGHTRPAALKDWPGGR PEGHKVRS DPPGRPASSTVQLKGLSGER DGCPLRRGPGPHRAEGSPSRALRPPGTR GNTATRTPVSSGMRAASCQAWRNEVRS LMVQAP
7113	15164	A	7794	1	427	
7114	15165	A	7795	1	330	
7115	15166	A	7796	3	1229	SPPSPLAPGLASQDSRPVFPSPTPAMAAVP TQPQSKEGPWSPESPMRLITAPLPPGP SMAVPTLGPGEIASTTPPSRAWTPTEQGP GDMGRPWWAEVVSQGAGIGIGTITSST ASGDDEETTTTTITITITITVQTPGPCSW NFSGPEGLDSPTDLSSPTDVGLDCFFYIS VYPGYGVEIKVQNISLREGETVTVEGLG GPDPLPLANQSFLLRGQVIRSPHQAALR FQSLPPPAGPGTFFHYQAYLLSCHFPRR PAYGDVTVTSLHPGGSARFHCATGYQL KGARHLTCLNATQPFL/WDLKEPVCIAA CGGVIRNATTGRIVSPGFFGNYSNNLTC HWLLEAPEGQRLHLHFEKVSLEDDDR LIIRNGDNVEAPPVYDSYEVEYPPPPPL QPHYHRVSV
7116	15167	A	7797	110	342	FVLFPTKVYEGERAMTKDNNLLGKFELT GIPPAP*GVPQIEVTFDIDANGILNVAVD KSTGKENKITITNDKGKEA
7117	15168	A	7798	1	335	NFCTREDHQYAPLDPKHGHLPPRMPPSE RLMAAEAAFYSPPYHDRPTNSEGWEHT GLYESFRAKLRSPPRRKGPEKRNSGSPSR NRKSRGRSSSRNSRSS*SSGSYSRS
7118	15169	A	7799	110	409	
7119	15170	A	78	226	481	CLAHSRHSINISTCTGAEGHESESFSYWG TRGPSATMACDGLTRTGHSPPSRARSPP LLCARSLTKAACQ*AVPVTWCHCWRPQ G
7120	15171	A	780	140	459	RSSLLPCLGLWTHLIPVKVRDSLGPFAFR GEKADMPVLYDRLLKLMEMLYFKSGTI PMFYG*APRRVYIIGERIHYCGYSVLPMA VEQDVLIAVEPVKTYALQLAN
7121	15172	A	7800	40	621	

7122	15173	A	7801	1	338	GTSFYLYRKGYLSLSKGVPM SHYAGTLL LLLAGVACLGRGIVRWTPHYRKTMTIP* ASHRNQSSKYPRHVANYNCDFRSWPDD FHCDEPITRNESQGGPIRRSVHTASPKPM
7123	15174	A	7802	1	390	ILDCHTDDSGTYRAVCTNYKGEASDYAT LDVTGGDYTTYASQRIDEEVPRSDFPILT RTEAYAVSSFKKTSEMEASSSVREVKSQ MTETRESLSSYEHSASA*MKSAAL*EKSL EEKSTTRKIKTTLAAR
7124	15175	A	7803	3	235	VNSAEEAEQANTNL SKFRKVOHELDE/ AVALPHFDLLIQLVLHLADEAEERADIAE SQVNKLRAKSRDIGTGGLNEE
7125	15176	A	7804	2	561	MRPHRLDEAEQIALKGFFKQLQKLEARG RELENELEAEQKRNAESVKGMRSERTP SKELTYQTEEDRKNLAAACRTLVDKLQL KAKAYKRQAEAEQSPTPNLASKFRKV QARAGLRAEERADIAESQVNKLRAKISR DIGTKGLEMKELAFATSLNLAPPLGRCP ANAPCWSLCSNFLGREAE
7126	15177	A	7805	3	303	GRRPPALIDSRSPSPASPPTQ*CRPPSFPGP APPPRLWLAPPFCPPPPHGYGPF PARKR RGAALGLTRVLPSPGSAVRRSPGPGGS ACDKVFRTTSR
7127	15178	A	7806	190	389	RRTYTSHLLACL RQGLAFSPRLECGGKIR AHCSLQLYGSSDPPT*APQTAGTKQHNO RIAQCNA DN
7128	15179	A	7807	3	271	FFLRQSHSVTRLECTGAI*AHCNLCPLGS SDSPASAS*VAGITGMCHHARLIFVFLVE TGFHHVGQAVLELL/NLMICPPQPPKVLG LQA
7129	15180	A	7808	610	923	FYLSEEA EFFFFFETES/HLLSPRLECSG MMSAHCNLR L PGSSDSPASAS*VAGITG GHHPAQLIFVAF/MYQPGFCHVGQAGQQ LLA*VICLPQPPKVLGITGA
7130	15181	A	7809	487	796	LSIFFFFEGRGAIVANVSLNFP GSKKPP PSLSKEPGTTGAAPPREIFFPPKKTRLGFA LHPGSPPPGPWAPLWSKGEKV GILKKH KVGRGRGFSPVSPFF*KPPPSLSKEPGTT GAAPPREIFFPPKKTRLGFALHPGSPPPG PWAPLWSKGEKV GILKKHKVGRGRGFS PVSPFF
7131	15182	A	781	595	1060	ARFLPKYQSPTGPHPSFNAFLSLGAMCV LPRPNFHS LA VRSPVPGGPAPLVPGKE* EGLGVTSQSRPDCPSMSGTPRCRS*LRP AAGRGCSPLLGGCPWTVTHPLRTKAGC TLWAQQPVVLPVGGEGPRCASPVAVL GFSPCALCHLDPPVK
7132	15183	A	7810	1	340	GTSQVLT LTIAEV**NLG*VGCK*CKHTE AKRMPCAEDYLSVVHEQICVAHENTPVS DRVPIRCPESLAIRLPCFSALEVDETYGD* EYNAEAFTLHADICTLSEKERPIKKQ
7133	15184	A	7811	3	337	IESSLHQVESMHGAGNAKKNWQ/RIQEH FFA TFHPLKDYCL/EGTNLVEADNQA WTDVQKKIIPWNSRVSDLDL/ELLQDR AARLGK\SISR/LIRCGPSLHSDKPTNFRE G
7134	15185	A	7812	3	926	YGEENLKTSICTFLAVLSHLDITQNIPEK KLILKQALIVVLQWCFNHNFSVRLYALV ALKKLWTVCKVLSVEEDALTPVIESSL HQVESMHGAGNAKKNWQRIQEHFFAT FHPLKDYCLETIFYILPRLSGLIEDEWITD KFTRFTDVPLAAGFQWYLSQTQLSKLKP GDWSQQDIGTNLVEADNQA EWTDVQK KIIPWNSRVSDLDLELLFQDRAARL\GKSI SRLIVVASLIDKPTNLGGLCRTCEVFGAS VLVVGSLQCISDKQFQHLSVSAEQWLPL VEVKPPQLIDYLQKKTEGYTII

7135	15186	A	7813	3	360	ATCSSDQSVKVVWDKSESGDWHCTASW KTHSGSVVWRVTWAHPEFGQVLAFCFTD RSSAVWDEILSESRDNL*GHTHWVKRTT LEDIVSATCV*SFLSHVGIMLLSCGTFPP ACICGVFP
7136	15187	A	7814	9	305	SHLLRSLRQENRLNPRGGGNCQPRSGHC TPAWATRAKLHLKKQTNKMLANLIQQH IKKVIHHYQVGFTPGMQG*FNICKSVSVI YHINRTHKNVAAAA
7137	15188	A	7815	3	217	AASTMPMSFEWQRQ*RFPPFYTLQPNVN TRQKQLTA*CSLVLSLCRLHKQSSMTLIK TRLTSDSITVMLDC
7138	15189	A	7816	15	335	QHFWERFHVTKDRINTVERQETDWKIFA TYLMKKV*ISRKCYNYSKLVRRKQLNR KWAKEKNKQSQKKKQSGQ*TKTVQPQ* NKRAN*RYYLSPISLAKSNKLN
7139	15190	A	7817	1	331	GLIEILVIYVSDTPVK*DV*SDIFEQ*AYG KIDGGNDVCDLQSSEGTNTKMKNNEEM MIGEAMDETGHGETENEGISTKTSKPD EAETNMLIAEMDTFVCDTVMSTEG
7140	15191	C	7818	51	200	MSTPXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXX*
7141	15192	A	7819	3	219	MLAGCSRTPELR*STHCSLPKCWDYRRA HNAQPFLTIN*RSETRRSL*F*IMWLPLE FLGFPLESQOGCTA
7142	15193	A	782	71	237	EQPGMVTHTCNPSTLGGRGGWIT*DQEF KTSANMVKPCLCWRYKKLAGHGGAC L
7143	15194	A	7820	1	358	VHCLVPDLLQSNNPCYWGVMDKYAA EALLEGKPEGTFLLRDSAQEDYLFVSFR RYSRSLHARIEQRNHNFSFDAHP*VFHS PDITGLLEHYKDPSA*MIFEPLSTPLIRT FPFCL
7144	15195	A	7821	260	481	LILKFV*NHKIPQIAKTILSKENKAGGITL PDAKISCKAVVTKTALYWHNRHIEQW NRIANTEINPNICNQLI
7145	15196	A	7822	1	306	VKAKAKKLQIQPIQLELLYCSYDMQEED FAHRAMDYFPKIENNLSTRMDHMOVSS CIENWHQLESLSLLILHNMPHYEEDDEFE GLRLDMVQ*RLTSCSDAG
7146	15197	A	7823	3	396	SSLSSLSSSVSVTFGFGTFPSAVSSSIDG GLALAFSSSGLSTSFSSP*SHSSSSPPVPP LSSDTRRSTSPADMAAPSAT*TRRSTAPS NPFPSLAAPRREKGGNPPTNERRKLETPI PGRRRQRRQR
7147	15198	A	7824	3	344	HEHECYAKVLYELKPVGEEPQNVSKQN CDLFEQLGQYEF*NALLVRYTKNVPQGT TPALGQVLRNLRKVSSKCKHPEAKTM PCAEDYLSVILNQLCALHDSAVSDRVS RCWT
7148	15199	A	7825	1	413	RAGYRQKWGSLATVIGQLGLPSGGLV WPQRRREGHRNAHCSELVDDLHVITQ NRANHRPRCGSLLSELKFAPLALQPGR QSKTLSQKKNKQTTTKKNTKKQPGSVA HACNPSTLGG*GRQITLPSGVRDQPGQH
7149	15200	A	7826	37	363	ASDWNQDRARGRGQGGCETRDSSEQSQ GTNGQPPAEASKDSWSSGGKMAR*APSP QRQKAGYPGSPSPQAPASMRSLGPPQF QEPPQALFPLEVPIPSPHTRNKMAR
7150	15201	A	7827	3	354	HERAFLNNSCFL*AFDPYQCDRYLFKIV TDVYYTPYVLIYYI*APLPLLQLTHTHF LSLFFL*VLNIYALVYLSTALPLSLFISISS PRYSLCLFFHFLSLMLFLSSLSMYCSHY
7151	15202	A	7828	2	269	ARVAPLKGVEQEVREHEGEVTKPEKEK GEETRIENGKLIVVSDSCGRVYVSGKIYY PM*AYNDGLILERYQIMPIDIIVSYVFIMI

						CLD
7152	15203	A	7829	2	350	KDIRVGHRQNRALPPQASPTVAPGQPT ALPPTGHSGPTMGWPSRSLQSLITAPTS ASPTVVKLPSGACWPLSSTFASSPLSLVQ *P*NSDSHDATSAMAPSSSRECLSPWPA R
7153	15204	A	783	236	404	EDGHHSGLHSKQKQPAWPSMVTHTCN PNTLGGRGGWIT*GQEFETSLTNMEKPC L
7154	15205	A	7830	2	376	SHCLEPKDIRVGHRQNRALPPQASPTV APGQPTALPPTGHSGPTMGWPSRLYQLS LITAPTSASPTVVKLPSGACWPLSSTFAS SPLSLVQ*P*NSDSHDATSAMAPSSSRE CLSPWPAPRA
7155	15206	A	7831	176	379	SVTDHPTIYNCNLSPSPNPGSPDSDPVLFP VVMTDYLLP*CVICCCFLSDPPHCSHPHV GGSFFGIN
7156	15207	A	7832	1	344	NSGRVSGNLISPLPPGPPGPRPLEEATP VLLSQGIPEREDSFRNLRTDLYIHLKKS* DSPEISSLCQGEATPRHSDKHNS*NAAS EGKGCGFPSPTMEVEIASHDEEDVIHS
7157	15208	A	7833	355	535	PNRPITGEVTTKNLTKKSLRPDGFDTDFC *TFKEGFIPTLLKTVKEGLHPTFLYEASIT L
7158	15209	A	7834	61	250	RSRLCAPVRESHTYLIMPLGCC*FFLYYI FFGFFSVVFCLLSFYSPFFSVSSVSFV*F WVF
7159	15210	A	7835	3	66	DAWEKKICETEDWLFEIHHQRISSSRMKR NKEQLQDV*NTIKRTNIRIIGVIEKREKG RKLI*EIMAENSPNLGKDMSIQVYEAQRS PYRIHSSKKTSPKHMIKLSKAKSRR*IRG
7160	15211	A	7836	3	146	HMVAGAVAGILEHCVMPIDCVKTRMQ SLQPDPAARYRNVLEALWRIIRTEGLWR PMRGLNVSASCAGSAYALYFACSD*LTQ LPAIAMCWPRSGGL
7161	15212	A	7837	2	329	VASGRRKNLLSKVTGLEVPEGSTPDRPC SGRQSLNPPVTSFPNPSQRNRTPPPTTRQ MATL*EALHGSHLPPPGRACRTSSPGPR TTRPQVSDRRAQSPTSIVGPHRP
7162	15213	A	7838	2	356	EAGAHT*ITMNKQRLKQTVDDTVEVSD FTVSRNAHEAFNTAFTTLAACAASIG*V LLYLTLTCPC*CKTKRQNNMLHQSNA NSSILRPGPASDASADERNACARKRAVL LEPLKD
7163	15214	A	7839	3	264	
7164	15215	A	784	2737	2915	KNVVHTHQGILYSHKKEQD*LGVAHT CNPSTLGGRGGWIT*GQEFETSLTNMVK PCLY
7165	15216	A	7840	42	226	
7166	15217	A	7841	1	507	LQLEAEEQRKQKKRQSVSGLHRYLHLL DGNENYPCLVDADGDVISFPITNSEKTK VKKTTSDLFLEVTSATSLQICKDVMDALI LKMAEMKKYTLENKEEGLSDTEADAV SGQLPDPTTNPSAGKDGPSLLVVEQVRV VDLEGLKVVPYPSKADLATAPPHVTV VR
7167	15218	A	7842	51	340	PILVYRPDVPD*VAKDYASFRNYT*GPLL DRVFTTY*LMHHTQTVDFIRSRHAQFGG FSYGKMTVMEVEDLLDGLMDESDPDNL FLKSFHA*KIAY

7168	15219	A	7843	44	1352	KMLYKNFIMQSQELTALWEAKVHPAML GLDELGRSGCGHCTQADLRFGDAAGRD PGQDNDNRNTAEPAPPPPRVMAAAAAL RAPAQSSVTFEDVAVNFSLEEWSLNEA QGCLYHDVMLETLTLISSLGKRQTLHTR ERPYECEGKAFAEKSSLINHRKVHSGA KRYECNECGKSFAYTSSLIKHRRHTGER PYECSECGRSFAENSSLIKHLRVHTGERP YECVECGKSFRSSSLQHQRVHTRERP YECSECGKSFSRLRSNLHHQRVHTGERH ECGQCGKSFSRKSSLIHLRVHTGERPYE CSDCGKSFAENSSLIKHLRVHTGERPYEC IDCGKSFRHSSSFRHQRVHTGMRPYK* SKFWKFSFCPGFLLLQGGQVHTGSRCEC DKWGIFFS*NASFFT*KSAPEEVPFECN ECEKAFSPSLVT
7169	15220	A	7844	2	353	NLLYQFWIHTEVINNLPLELILNTRSHH RVHDGRNRYCIDKNYAGVLIWDKSFGT FEAENEKVYGLTHPINTFEPIKVQFHHL FSIWTTFWATPGFFNKFSVIFKGP*WGP KP
7170	15221	A	7845	3	386	TVRVCACDHHGNMQSCHAEALHPAGL STGALVAILLCIVILLETVVLFAALRRQR KKEPLIISKEDIIDNIVRYNDEGGGEEDTQ AIDIRTLMPVPI*DTHLRRCFAP*TSLYY HRATPTRSCYHP
7171	15222	A	7846	151	352	YCCTYYIFVLFIP*SSCGLTLIFITCILFGSI SFFLFFTIVFSIIVTTFKFRLLYSIIFLSYLL C
7172	15223	A	7847	2	265	VKPSP*PLTGALSALLMTSGLAM*FHFHS ITLLILGLLTNTPPVQKGLRYGILFITSE/V FFFAGFF*AFYTPA*AYPQLGGTAQQDT
7173	15224	A	7848	1	156	GIRHEAYHIVKPSP*PLTGALSALLMTSG LAM*FHFHLKKKKKIGSSFI AVG
7174	15225	C	7849	512	778	MTSGLSHVDFTSNSITLPHTRAYXTNTL NHIPMMARMLTRRKAHTKGHHTRTCSK KAFRYGDKSYLFTSGSFFSSQGFILPFLP LQA*
7175	15226	A	785	361	710	DLFWLF*MDKFLDTYTLPRLNQKEVK
7176	15227	A	7850	15	613	LKTTHLLFQVSVGQESRCGLAKSSGSKS LTRVKVRGQPRLWCHLKAQLGKDLLLS SLTWLLAACGSSPVVGLWASAPGLLLAS HHPRFSATWVFHKVAHNTAAGFMSTGK QEG*RDKITAKQKFASYNLISEVTTHHFL PYSIYEKQVTRSSPHTKERDSPRG*LSEG KDHWEFPQKLPA TDVIALFYENKHQTH YIHL
7177	15228	A	7851	66	355	KSMTDGHIQTVTNIRQLPARTLYTHWPR EFSP*SPPLERMHTRGARREAROKAPRIR DKRRGKSRVHCLGEELANGGGWDRIRW GKGERQGDGRV
7178	15229	A	7852	3	358	HASAHASGQGDQLERDHEN*DRFVRQ VVGINNYRISEESGHPYNIFGKIFHDCAD LDTSEH*LCKCDSFDKTLKPTINLVSYNR NFA*TNIDENFRCGKSPSYSSCYSKHEEL HNGM
7179	15230	A	7853	79	413	LSKGTGRKRDGLTLPAPHPAKTDPAAAP QGQPGVGVRSSPPCPG/QREQQSAGSP GWMGGGCPCPVS*PLKGQNPSPSSLGG SKGSFFSPDPAPVARGRRVRGEERGQVR E
7180	15231	A	7854	171	173	LTAEACLSFSPSLPSSLGVSGCPHHGGLG PAHPALPQPPGCIFEAAPPRALT*PLSS PLTPAPGHCRIRRGEEGASAAFGCLGT GLVLSFEDDHLQD*GQAHTQSQPGASP QTLCCFRGLGHAGELLTPTPTVQPLFPE SASKWPQLFGPRILPGPPKGSPTTKAWPP GVCGQQLPLVKGHPG*PSPASGRSRCEV SVPSCPVVI DI GWGCI APAGCPSQHWB

						SVPSCPVVLPPLGWGCLAPAGCRSQHWR D
7181	15232	A	7855	27	263	FHCFISNF*VANRSSLLIDFSVGLLKCKS FIFFNAILHYCLMMVCEYDSLFLSYM LLIFFYFYFYIFYLLFIHPY
7182	15233	A	7856	92	354	VLNSI*SGNQKSYANVYRLLYLDPIPKI YAEAYTP*NVNSTNLETQSPKTIQKFPED REFKNDFFEKTKNGDRETGAHPFLLFL V
7183	15234	A	7857	464	2848	GETGMSTALHTTVAMRCPMLGGGGGP TYGPPQPWGHDPVHIMQHHLPIQARLG SIAEIDLGVPPPVMKTFKEFLSLDDSD ETEAVKRYNDYKLDFFRQQMQDFFLAH KDEEWFRSKYHPDEVGKRRQEARGALQ NRLRVFLSLMETGWFDNLLDIDKADAI VKMLDAAVIKMEGGTENDLRILEQEEEE EQAGKPGEPSKKEEGRAGAGLDGERK TNDKDEKKEDGKQAENDSSNDDTKKKS EGDGDKEKKEDSEKEAKKSSKKRNRK HSGDDSFDEGSVSESESESESGQAEEEEKE EAEALKEKEKPKEEWEKPKDAAGLEC KPRPLHKTCSLFMRNIAPNISRAEIIISLCK RYPGFMRVALSEPQPERFFRRGWVTFD RSVNIKEICWNLQNIRL/RECELSPGVNW DLTRVRNINGITQHKQIVRNDIKLAACL IHTLDDRTQLWASEPGTPPLTPSLPSQNPI LKNITDYLIEEVSAEEEEELGSSGGAPPEE PPKEGNPAEINVERDEKLIKVLDKLLLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFFEEKLTP LLSVRESLSEEEAQKMGRKDPEQEVEKF VTSNTQELGKDKWLCPLSGKKFKGPEFA RKHIFNKHAEKIEEVRKEVAFFNNFLTD AKRPALPEIKPAQPPGPAQILPPGLTPGLP YPHQTPQGLMPYGPQPRPILGYGAGAVR PAVPTGGPPYPHAPYGAGRGNYDAFRG QGGYPGKPRNRMVRGDPRAIVEYRDLD APDDVDFF

7184	15235	A	7858	1073	3541	GETGMSTALHTTVAMRCPMLGGGGGP TYGPPQWGHDPVHIMQHHLPIQARLG SIAEIDLGVPPPVMKTFKEFLSLDDSD ETEAVKRYNDYKLDFFRQQMQDFFLAH KDEEWFRSKYHPDEVGKRRQEARGLA QNRLRVFLSLMETGWFDNLLLDIDKAD AIVKMLDAAVIKMEGGTENDLRILEQEE EEEQAGKPGEPSKKEEGRAGAGLGDGE RKTNDKDEKKEDGKQAENDSSNDDKTK KSEGDGDKEKKEDSEKEAKKSSKKRN RKHSDDSFDEGSVSESESESGQAE KEEAEEALKEKEKPKEEWEKPKDAAG LECKPRPLHKTCSLFMRNIAPNISRAEIS LCKRYPGFMRVALSEPQPERFFRRGWV TFDRSVNIKEICWNLQNRGARSLNRWC SRGKGLRAAVSLASGLRECELSPGVNRD LTRRVNRNINGITQHKQIVRNDIKLAAKLI HTLDDRTQLWASEPGTPPLPTSLPSQNPI LKNITDYLIEEVSAEEEELLGSSGGAPPEE PPKEGNPAEINVERDEKLIKVLDKLLLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEEKLTP LLSVRESLSEEEAQKMGRKDPEQEVEKF VTSNTQELGKDKWLCPLSGKKFKGPFEV RKHIFNKHAEKIEEVKKEVAFFNFLT AKRPALPEIKPAQPPGPAQIIHVPVRVVL PPGLTPGLPYPHQTPQGLMPYGGPRPIL GYGVPTGGPPYPHAPYGAGRGNYDAFR GQGGYPGKPRNRMVRGDPRAIVEYRDL DAPDDVDFF
7185	15236	B	7859	145	226	MAVNCSEMRLKSSWNGCAIANEGDCHL EATSICSSFSMDMLGEFRHCESSILLAST AX*
7186	15237	A	786	2	424	
7187	15238	A	7860	136	1559	ILTMREIVHIQAGQCGNQIGAKFWEVISD EHGIDPTGTYHGSDLQLDRISVYNEA TGGKYVPRAILVDLEPGTMDSVRSGPFG QIFRPDNFVFGQSGAGNNWAKGHYTEG AELVDSVLDVVRKEAESCDCLQGFLTH SLGGGTG/SPGMGT/LISKIREEYPDRIM NTFSVVPSPKVASDTVVEPYMATLSVH QLVENTDETYCIDNEALYDICFRTLKLT TPTYGDLNHLVSATMSGVATNCLRFGA QLNADLRKLVS/VNMVPPRLAHFFMPG FAPLHQPVESQQYRGSHKCRELTQQ/VSF DAKEH*WAACGPPATGRYL/TVAAAFR GRMSMKEVDEQMLNVQKN*QLTLWE WFPQQCSRTACLFTSQPRGPSRWAVHLS LGNRHSHSRELFQSGIFGSSFTWPCFRK AF/LFW/YTQGEHGTEMGVSTEG*EA TLNDLRL*SIKQLPRMPTQEEEDFGEEA EEEE
7188	15239	A	7861	2	304	ARGLCPLGYTGLKCETDIDECSPPLCLNN GVCKDLVGEFICECPSGYTGORCEENINE CSSSPWLNGICVDGVVVCCTFV*GFCI FKFSCSSCPLYTI
7189	15240	A	7862	1	345	GTSGTSRFL*DVLMQNDGTRWRIFYAT VIYQKPQLKSLILE*RETWVLGTDGTLQ TKEEKDPRLRKTLLVYVAPLLVLGSDVL EALSGAAPLRLFLKDAIRDQARIGRAERT VL
7190	15241	A	7863	2	343	VRSAYPRLLENSLAGQRRHHLCHPLLP AGGARAPQPPQQLGARPGPGRCRM RRRPQAPRAGRGAAALARAL*PLSSTASR RGACPGAAPSDSPEDPASDHGHSPLGG RC

7191	15242	A	7864	1	338	QIDEIVTETLLTEAERGAKVYLTGTGYFNL TQAYMDLVLGTRAQYQILLASPEVNGFF GAKGVAGAIPAAYVHIERQFFNDECSL* QSRVQLSEYWRCSGRSLSMFVRHDI
7192	15243	A	7865	174	361	
7193	15244	A	7866	1	1259	VRCRPVRNSRVDPRVRMAAVFLVTLYE YSPLFYIAVVFTCFIVTTGLVLGWFGWD VPVILRNSEETQFSTRVFKKQMRQVKNP FGLEITNPSSASITTGITLTTDCLEDSLLTC YWGCSVQKLYEALQKHVYCFRISTPQA LEDALYSEYLYQEYFILSSDIPISTEN*T SYG*SVANLLILGILEACLLLQNKHSPCI RTCSVYRISVSGTGACFRLIYPLALIIRL LMDKVPLTY*SFLGY*KHVYCFRISTPQA LEDALWSEYLYQEYHFIKKDSKEEYICQ LPRDTNIDDFGTVPRSRYPLVALLTSLDE DDREIYDIISMVSVIHDPRTYKLSRILY QYLLLAQGGQFHDLLKQLFMSANNFTPS NNSSEEKNTDRSLLEKVLSESEVEPSE ENSKDCVVCQNGTVNW
7194	15245	A	7867	106	387	
7195	15246	A	7868	2	766	
7196	15247	A	7869	149	420	CGTDKTFWSTVRENLSYSEILLSRR QICKNKNDPPGDRD*FDYSRSDYEHSSR GRSYDSSMESRNRDREKRREERDTR KRSRKSP
7197	15248	A	787	1	462	
7198	15249	A	7870	1	443	GQDSRSRDNGPDGMEPEGVIESNWNEIV DSFDDMNLSESLLRGIYAYGFEKPSAIQQ RAILPCIKGY/DCDLYETLTITQAVIFINTR RKVDWLTEKMHARDFTVSAMHGDMQ KERDVIMREFRSGSSRVLITDILLARGID VQQVSL
7199	15250	A	7871	2	363	ELDTLCDLYEP*PSPSIIFINTRRK/VDWLT EKM HARDFTVSAMHGDMQKERDVIM REFRSGSSRVLITDILRIGRGGFRGRKG VAINMVTEDKRTLRIETFYNTSIEEMP LNVADLI
7200	15251	A	7872	3	449	NLQEWKLDTLCDLYETLTITQAVIFINTR RKVDWLTEKMHARDFTVSAMVCLPAA SLLWVCPSEVSYLKPGLPRCLPGLLHI CFLFQHGDMQKERDVIMREFRSGSSRV LITDILLVSRGN**QRQKGGSKVIPSPRG HQCLSGK
7201	15252	A	7873	236	533	
7202	15253	A	7874	1	366	AEIRDRSPGELHVEREEWKDLTLCDLY ETLTITQAVIFINTRRKVDWLTEKHAR DFTVSAMHGDMQKERDVIMREFRSGS SRVLITDILLVSRGN**QRQKGGSKVIPS PRGHQCLSGK
7203	15254	A	7875	5	1285	FLRIMSASQDSRSRDNGPDGMEPEGVIES NWNEIVDSFDDMNLSESLLRGIYAYGFE KPSAIQQRAILPCIKGYDVIAQAQSGTGK TATFAISILQQIELDLKATQALVLAPTREL AQIQKVVMA LGDYMGASCHACIGGTN VRAEVQKLQMEAPHIIVGTPGRVFDMLY R/RYLAPKSIRMLVLNEADEMLSRGFKD QIYDIFQKLNSTQVVLSSATMPFDIVL EVTKKFMRGPURILVKKEVELTLEGURQF LHQPWNEEEWKLD*CDLYETLTITQ AVIFINTRRK/VWDWPHPRKMHARDFT VSRHAMGDMGPKGNETVIMEGSFRSGS *QSF*LPT*PCWARGIDVPARFSLVINYD LPTNR/ENYIHRIGSTVDRFGRKGVAINM VTEEDK/RALRTL GASYNYSIEEMPLNV ADLI

7204	15255	A	7876	3	378	MDTTPLSYSES*SDEYLVTNM*LQDAFC RGLVKPGLNVLLKGPINAVIDVNLKQC LA*FKRYLECL*RLDVTLCVPV*IGGSDA PLPHNKDHKAADP*DYFQR*MSFYRQA HAAMLAVLPRLHH
7205	15256	A	7877	2	397	RESESCAAADTPALETLSFHGDWEIIEVF NRDLGSTYPDDLAL*MEDVDFEEYEE* GYD*GWVLYPQEGVIGNMEGPDYS*VTF ALHSSSVYRVSLDPKTYTLAVTGGYDD GAFVWLLTYG*LLFE*ASHE
7206	15257	A	7878	3	399	NSQVLLDSPIQLSKITENYECITELSGLLK REQSSTVNASNLENDEARLKAYLENRSE IDSLKTSNPIDL*EASISQAGSIN*SRF*SS GMNKSVDVRIDNFGSIGDRILLTAANVI LAWCRLYGLMRQNV
7207	15258	A	7879	1	424	PVLRVARERSLPGPQEGPHGRASESASPL APSIAPSPPGPPALSASHIMGSQALRSPET PW*SPWDPPAPLDLVSPWQFPFGPHASA TP*RSPLGLQTPQAPGSWAPHVPATPQA SGLPAPHVTETP*ASS*LAMPVPETP
7208	15259	A	788	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFDFSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMTGVASA LSSRYH
7209	15260	A	7880	156	312	LFSLACRYHVYPTCRNTSGILGFTVSVVT NAIPFIS*LSSFYTYFLYNFG
7210	15261	A	7881	15	394	FGCLLQGRRLKSHSPWQGPASGRPAQ GKHKNR*RGQNPSNLSPAPTTPWPGIK CPLPRAGPSLSSLLPGRVLCARPEFLHG RGLEPSASLLPSALAPSLRGLKGTERR LKADQAWGGWKE
7211	15262	A	7882	2	102	NKILIKTNSRKK*KIE**RDNNQSNNNKN HNK
7212	15263	A	7883	3	397	NFLYTFLYFPNFV*SAHCF*NQKKKNKY FLLREKCLNCFPHLYVAFYVYPSIFNLS GC*YLPSCSIFYVFIPLSHPLFFFLCFSLS FSLPFFLSLFCFFLAFLFHPSPILLDSSA CLLCISCFHL
7213	15264	A	7884	190	339	DGKGLLQVCLPLQDVYKIGGIGTVPVGR VETGVLKPGMVVNFAFVNVT
7214	15265	A	7885	377	1073	LQGHLRLTGAVLIVAAGVGEFESWYSPR MGRPESMPFLAYTLGVKRLIVGVNKM DSS*PPYSQKRYEEIVKEGSTYIKKIGYN PDTVAFVPISGWNGDNMLEPSANMPWF KGWKVTRKDGNASGTTLEALDCNLPP TRPT*QSPCGLPSSRDVYKIGG/ILGTVP VGPSGRLGVLPKPGMGGSPLAPVNVTE VKICSEMHHRF*VEALSWGDNVGLSM FQGLLFCSK
7215	15266	A	7886	2	415	SVGDPCPSTASVDQCTIVP*PMEGPLLLY RRCIEGVGGIFLWDPQSPSQHPGATPST GEPGFVQHDLSHIQQPAAVVAALNN HKPPVRS*PPSATPEAFT*FSKCDLDEE LSLLRYCHAFSEC*HDIRPSHIHP
7216	15267	A	7887	1	360	TERFGM*GGEAVCLYEPPVSELLRRCGN CTRESWVVSFYLSADHELLSPTNYHFLS SPKEAGGLCKAQITAIFQQGDIFVDLET SAVRPFVWWQVEAIPVDYLPSCFVMIPT LYCSP
7217	15268	A	7888	152	378	WEGGGSGTILARRFWDLQAYRPHAQVP GFLR*SHLMAVGHAETDLTALTMLILT PEAWQLHTILYLSGLLAMP
7218	15269	A	7889	302	564	YWLFYDFMIAEKILNGYFCCCC*DRSCP VAQAGELWHERGSLQPRPPGVKQCSYF SLLSSWDRRHVPPHLANF*TFPCRDRVSP VLP

7219	15270	A	789	38	485	APSPDA\MGHFTTEEDKATITSLWGKVN V\EDAGGETLGRLLVVYPWTQRFFD\SFGN LSSASAI\MGNP\KVKAHGKKVLTSLGRC HKSTWDDLKGTF\AQPDVNCTCDKLAHV DP\ENFKLLGKCCW*PVFGNPIFGKEFTP EGAELPGQKDG
7220	15271	A	7890	1282	4603	GSLPCLEHVSLNNPLSIIPDYRTKVLQA FGERASEVCLDDTVTEKELDTVEVLKA IQKAKEVKSKLSNPEKKGGEDSRLSAAP CIRPSSSPPTVAPASASL\QPILSNQGIMF VQEEALASSLSSTDLSLTPHQPIAQGCSD SLESIPAGQAASDDLRDVPGAVGGASPE HAEPEVQVVPQSGQIIFLPFTCIGYTATN QDFIQRLSTLIRQAIRQLPAWIEAANQR EEGQGEQGEEDDEEEEEEDVAE
7221	15272	A	7891	1	286	SPPTVVPASASL\QPILSNQGILGDE*VIL VS*ACLLARPARKRGCAVPSGAEARDT QERTPPARAPGDAELGVRSWENSSTRCF KSQKNITP
7222	15273	A	7892	3	417	PPPLWFNQDPHVESKGLAAGRPVPSTSQ GRTQFRGSAPPKDPLRTPGSANRRVP HTFQPDISFPGSPKPPS*DRPHNP\SLRSP LVSHSVHNQAGR\WAKVQATARERKSDT KSIWLWRWRRILKRTRSNSLYTLHG
7223	15274	A	7893	2	236	KKSNLRMLAEHGGSHL*SQLCRRLRQEN HLISGGGGCSESTSHHCTPAWGTE*DFVS EKKKKKLTGWPDPSGRIKWWC
7224	15275	A	7894	3	254	LECNGTISAHCNLRMLVSG*FSRLSLPSS *DYRRPRLRPANFCILVEMGFHHVQGAG LKLQTSGLPLSLPKCWDYRRAHPLA
7225	15276	A	7895	1	185	RQSLALSPRLECSGAI\AHCSLEPLGLRQL CCLSLPKC*DYRHEPLSLACLFLFYPPEH LT
7226	15277	A	7896	1	182	KLVGLEPVSTYSIRVSAFTIVGNGNQFSN VVKFTTQESG*IQFLSLKCFLYLTPFFSF S
7227	15278	A	7897	4	329	AGEGGLQALILRDGAWPQPPSGD*QVKG LELTPAPAGSSQGGPGPPPIASSPVGQS KTDATTTKVGPVGGGQPAPMHQQLPP SPGDPAEDAHTWGERSLSGMKGK
7228	15279	A	7898	115	408	HWKERGSLYPA*TQGSACVLPQGHL LPQATPPTTAHLVPPQHCRRPGAAPAP* QGMSTPTTATLFSRLQGRQLPMPGAPSG QGPWLYCRGEGPRA
7229	15280	C	7899	128	253	MNSPDWELWQDNSPQDSCVLIPRTCDH AASRGRRDSSGVIE*
7230	15281	A	79	421	899	IASLFLIVKVEEVSQTAIWKKKKCDEYIP GTTSLGMSVFNLSNAIMGSGILGLAFAL ANTGILLFLVLLTSVTLLSIYNLLLICSK ETGCMVYEKLGEQVFGPQGFVIFGAT SLQNTGGKKNMLFFT*LEYTHTSFFSK WLFVRLLLSRSEINLLFI
7231	15282	C	790	128	274	
7232	15283	A	7900	856	1071	SFALVAQAGVQWHDLGSLQLPPRFK*F SHLSLPSSWDFRCPEPYWLFVFLVETGF HHVDQAGLELLTSGD
7233	15284	A	7901	87	395	RSGGGVPPRNPPPLGGRGGGFPQGGPFI TLSPKGKPLFFLKSONFPG*WAPPLKPPF KGG*TKKIFLTLEGGVPINGNFP PPPPGG KNFFSKKKKKKKKK
7234	15285	A	7902	28	403	GGTIYGNCVVPATVPAGSPGVPAVGGQP GPLPVL*RTSPETCPPLGVTTGSLCLAPY HSLFSGGHGLPGTPREAG*REGGNSLQL QLPNPKPFLPSRPEDPTWSPSSQGEELRR RKVRCDLKSLT

7235	15286	A	7904	1	609	SHKTNVQQCYCYCGGPGDWYLMQLQC CKCKQWFHEACVQCLQKPMFQDRFYT FICSVCSGPDY\LKRLPLQWVDIAHLCL YNLSVIHKKKYFDSELELMTYINENWD RLHPGELADTPKSERYEHVLEALNDYK TMFMSGKEIKKK\KHLFGLRIRVPPVPPN VAFKAEKEPEGTSHEFKLKGRKASKPIS DSREVSNGI
7236	15287	A	7905	440	608	CVKLFLDTSQADTPKSERYEHVLEALN DYKTM*VDLFYVSL*GRHLVSIRNNGIV
7237	15288	A	7906	49	796	SHFIYFLTIWISSLVNEVC*SSPIFLMNLQ VVLYIFWLLLLYELCCRIFSHFVCLFTM FINIVTF*F*YLQIIVFLYG*LGFFYGYVK NIVNILLHAL*FCLSHFGFIPLGTIFNI*Y EVIFLL*G*SVVPALFIEKKQKQKTFLL LL*SAFSVYVWQYMQRSFMGSLLYWFF SCANVHSLHYFMIFKKIFDI*YQSPFTSL FINSLWFLVLCSLYLEIAYHVSLLKAE HIENLIGVAMNL
7238	15289	A	7907	178	565	KGGATCPESPQDRKRRGNLDMEKLYSE NEGMASNHGKMENE*QPQDQRKPQVTL YSGRQEVRRKRGKDRKQGNRR*GNV*R IKGKPESEGEAKEGKSEREGESEMEGGS EREGKPEIEGKPESEGEPL
7239	15290	A	7908	3	413	VTGVLVYLAVERLISGDYEIDGGTMLST SGCAEAENIIMG*TLHQSGHGHSHGTTN Q*EENPSVRAVFIHVIGDFMQSMGVLVA AYILYFKPEYKYVDPICTFVFSILRLGTTL TILRDVILVLMEGTPQGVYFTAV
7240	15291	A	7909	119	427	LESLSHRSSPRHIVIRLSKAKTKKSVLR AVRQKYQITYKRTPISLSDCSAQLQA RRDLGPTFCLLKNNNQPIILYPVK*SFIN EGKIVFFREISPERIC
7241	15292	B	791	72	524	LPAPPGRIKRADLATRPSKVIRVRRGGRK RPVPKGATLRKPVHHGVNQLKFARSLQS VAERAGRHCALRVLSYVWGEDSTY QWITKPVHKKHREMRLTSAGRKSRGLG KGHKFHHTIGCLAGQLGEGAILSSSTVTA NISKVCKIHT*
7242	15293	A	7910	13	235	DLINKISKAAGYKINTEKSVAFLYTNSNQ TEKEIKKAIPFTITTKNKTLYGINLTKEV *ELYQENFETLMKGI
7243	15294	A	7911	39	141	LSIRGLNIIKQRQL*DWIKQDSTLCCP* EIH
7244	15295	A	7912	1	285	QORRPPGLRPPHPRGQDQLWLKGKGG AAQL*EGPSGSGRGRGVERERGRRRKGR KGRA*RGTRKAGGEGRRRETALASLPLRG HRSPQERPRPTL
7245	15296	A	7913	1	452	TAKTTFFRNAHSHKLS*NVCKPVEETQR PPTLQEIQQIDSYNTRKNCGLGMKLRE DGTYTGFIKVHLKLRRPGTVGIRPQSI YDAIKEANLAVTTDKRTSFYLPDAIKQ LHISSTTVSEGIQGLVKKFNGVDNPQKV ALFKRIHK
7246	15297	A	7914	1	484	NVLCGNNQISDLGILLPEVCMAPEEKGD KDDQLNKETEDYLSLFEGFLKVTEDSL SYEDNQDDSDLLQDLSPEEASYSLQEN LPSESCSLDDLAKRIEIAEVVPTEGLV SILKKRNDTVGDHPAQMQHKPSKRRVR FQEIDDSLDQESLFGDGL

7247	15298	A	7915	2	1121	HYATDRFPFVRILLYYTYSYVPSFPS YTKCCFEFLTIFYSSLESKTCLGTESSKE SQHTVEPLGSSPCCHQMDVQTDSPSLSV TAGKDHMEELLCSAEATLALHTQSSETA GSPSGPDSSDACEDDSRQLAQTEACQ DVARIEGIAEDPKVFLSSKSKTEPLISPGC DRIPPALISEGKYSQAQRKELRLPLRDAS EALPTDQLENNELNELQQPDLTSDGKS PQAQADSNNGSENVLCGNNQISDLGILLPE VCMAPEEKGDKDDQLNKETEDYLNSSL KGCLKDTEDSLSYEDNQDDSDLLQDLS PEEASYSLENLPSDESLDLDLAKRIE AEVNQR*STIKSKMAFKKHIVLNLALFL
7248	15299	A	7916	2	390	SDSRETRVVINLKDSVFLYCKLFEGEK NQVKNENGCKDWQHLSHLSKHEESEM HINNSVKYSLKSDLKKNKAIDAAERRL YENEEK*WCAVVHVIVLSCFLGMMIR NLTLRKTSVLAIVSTIVL
7249	15300	A	7917	1	240	KRGEKAPETSKTTSTWRIPCRKRRLSNR DFPDLSTGEELPETCGSCLRRGSGREN*D AETWPAQCPECESKAAVSTRFLF
7250	15301	A	7918	3	420	EPLSSPLFCP*NQSKIHPPIFLAPTWPHP HHFPPGPGQPPFLSTGSHLVL*QKPKGA HEHLSGIPPSLAQNPTWVPPHPGKRSSPH SATRCKICPRLAPSTLLTPSNLTGP*PL LPGALPGLLGPPENFCTGCFL
7251	15302	A	7919	2	127	RFWDYGRIALVS*ADSESRFQRLSSTSS GQQDFENELVGI
7252	15303	C	792	56	289	MNFTNFTYISGGGAGEYCAFSKLPGES HRIVWWNLWPFPRRLLSACRCQPQRH LPCALWELVLVNPTGCSRISSE*
7253	15304	A	7920	1	346	DSRSPSPASPPTQ*CRPSFFPGAPPPRLW LAPFFCPPPPPHGYGFPFARKRRGAALGL TRVLPFGSAVRRSPGPGPSAWDKTLK MKQKKFGRSVGLWRELIRDCSLAELLSA
7254	15305	A	7921	184	291	
7255	15306	A	7922	481	716	VFFFFFFETECRSIAQAGV*CSLRLPPPGSS DSRASVSRVAGIVGACHHAQLIFVVA MGFHHVGEAGLEHLTSSDLP
7256	15307	A	7923	4	423	VARERRLPGPQEGPHGRAAGSASPLAPSI APSPGPALPASHILGSQALPSPETPW*S PWDPPAPLALVSPWQFPFGPPAPATP*RS PLGLQTPQAGSWAPPVPATPQASGLPA PHVPETPWASS*LALVPETPWDL
7257	15308	A	7924	3	436	GYLSEVVEENTPPKMEKEGLEIMIGKKK GIQGHYNACYLDSTLFCFAFSSVLDTVL LRPKEKNDVEYYSETQELLRTEIVNPLRI YGYVCATKIMKLKLEKVEAASGFTSE EKD/PAGQKVQDCYFYQIFMEKNEKVG VPTIQ
7258	15309	A	7925	3	187	VLAGLELEDECAGCTDGTFRGTRYFTCA LKKALFVVKLSCRPDSPFALLQPVSNQIE RCNSLAFGGYLSEVVEENTPPKMEKEGL EIMIGKKKGIQGHYNACYLDSTLFCFAF SSVLDTVLLRPKEKNDVEYYSETQELLR TEIVNPLRIN*YCSRFPILRLSAVTL
7259	15310	A	7926	4	343	KLEN*KMVLKEIKEDLNKQTDILFS*LQR LITVRMSILPKLIYKFSAPIQIPA*FL*IKIII KCMRKKGK*TRIAETASSSSSPSQSFILSPK LDHRGGITANCTPPWAIKGLL
7260	15311	A	7927	1	531	FYHADHAALKDEMTEY*VFLQIKRYLY HGRLLCKHPDAALLAAYIIQAEIGNHDS G*HPEGYSSKFQFFPKHSEKLERKIAEIH KTELSGQTPATSELNFLRKAQTLETYGV DPHPCKDVSGNAFLAFTPFQFVVLQGN KRVHFIKWNEVTKLFEGKTFYLYVSQK KKGIGSCP

7261	15312	A	7928	115	348	KSCLNIFGLKQTTSSLRWNRVKK*AHTY G*QLIFNKGAKIIHWIKYNPANGICYWISI CKKVNLDPYLIPYTHIQNGS
7262	15313	A	7929	4	430	AWLSALNSSLPATWSCCPSLGASHKLQ WEATSPTVPPRAPSQVKCAACEPTPTLP CLPFQPPRSLSSQAQVLLTGHPG*GPLR RQGEGLLRSGCQARLTQPNSEGGAV S*TGRPGDGAUGEAAPEPTRRDCPTAPP AS
7263	15314	A	793	24	452	APSPDAMG/HSLWGVNVEDAGGETLG RLLVVYPWTQRFDSFGNLSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGT AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMTGVAS LSSRYH
7264	15315	A	7930	1	380	GTRLLVRYTPKEPQVWTPTFVEVFGDLG QVGPE*C*HPEAKRMPCAQDYSVVLN QLCVLYEKTPLSDRDTKCCTESLVNRRP CFSALEGDEAYDPQELNAETLTFHADICT LSEKERQIYKQTVL
7265	15316	A	7931	2	388	NVQKSLAFLYTNNQSQESQIRNAIPFPA TKRIKYLGIPLTREVKGLYNENYKTLKE FREDPNKWKNFPCSWVGRINIIMAMLS KAM*RFPRVHIKIPGTFTELKGPILKFIW NQKRAQIPRATRA
7266	15317	A	7932	72	373	TSTLKKLEEKQTQSRRKEIKIPAEINAIEN KQIEKISKTKSCSF*KIKITNP*LKQ*TKE KI*INNIKNKRGQVTMAFVAIKRISREYC Q*LYTNKFN
7267	15318	A	7933	2	259	KQWKPAPPGPANPLPRGTSGPE*KGPHS DKAKPFPSPFFKKRQWGGAPSRSKKARG KGQPPKGGHLKGPLRVVNGV*RAPLNR TAA
7268	15319	A	7934	3	335	QIKPPRLRDTPHSFTPYHPVRRGLVYFPS APSPAKGEQLHTRHNVLGSHPRRRLP RSS*SSHRVTRGSLGSVPPARSTSYGPSR QWDLACPLTPEGVWRTKNNKPEAL
7269	15320	A	7935	37	281	GPSPYTDPTPTYP*LTLNLTNPRTNSTLPP TLHLPSRPTSPSPSTSLPPLVLRFFLKIQ SGKRRAYPEHFWGQNGERKV
7270	15321	A	7936	13	234	DLINKISKAAGYKINTEKSAFLYTNSNQ TEKEIKKAIPFTITTKNKTLYLGINLTKEV *ELYQENFETLMKGI
7271	15322	A	7937	3	426	VLEELPISVLFNSSVPAWQWLAHVYHS HGMMAAQMCIYKTLQLASQRRSWSA KLSSLWRLALLALKGCMANISNDYWPS LVQEATTEALKLCFCPLAVLLALLQFK RKMVST*TLCLLERVVYHPGSKFIGSN WPAV
7272	15323	A	7938	132	393	ETNSLFGPQVKRQGNLDG*LNPPPRGFK KFSGTLRRSGNYRSPPRVFGF*GKRGL NWWAKGGLDLS*NNPPWPSPQGARIM GES
7273	15324	C	7939	170	394	
7274	15325	A	794	38	604	APSPDA\MGHFTEEDKATITSLWCKVNV E\DAGGETLGRLLVVYPWTQRFDSFGN LSSASAIMGNPKVKAHGKKVLTSLGD AIKHLDDLKGTFAQA*SELHCDKAAM WIPENFKLLGNVLVTRFGQSHFRQKNF TPEGCKASWAERWVTCSPVALFLQDT TEAQLPMNAELFKDKAFILASNYK
7275	15326	A	7940	107	379	PPFVAQLGGKGGNLG*LNPPPRG*RFSS LGPPISGNYGPPPSRVIFGFLRKKGVSPS GPGGGFIPDLKIGPFNPPKGLG*RGGPWG PNQ

7276	15327	A	7941	83	409	PEIISGFFFDHHGIKLETPKRNFGNYPNT WKLSTLLNDQGVIEGSSSSSLKWLTN EKGNTYQSL*DTAKAVLKGNLT AISAYI KNREKLQINKQCIFNYPEKQEQM
7277	15328	A	7942	15	334	QHFWENFHVTKDRINTGERQETD WKIFA TYLMKKV*ISRKCYSYKLVRRKKQLNR K WAKEKNKQSQKKKQSGQ*TKTVQPQ* NKRNAD*RYYLSPLAKSNKLN
7278	15329	A	7943	1	400	ESRLICQQMYMGEKPFGCSCCEKAFAFNSK SYLLVHQQTTHAEKPYGCNECGKDFSSK SYLVHQRIHTGEKLHECSECRKTF SFHS QLVIHQRIHTGENPYECCECGKVFSRIDQ LVSHQKTHS*QKPYVCNEW
7279	15330	A	7944	46	364	SHLPNSSFEQKYAYEFVPGYQKH YTL SK FPWPFFAEMEKLILKFKWKS*SHITEAIL RRKNKVGD L T L S D V K S S L * R Y D N Q L L S V *Y*YKHRRIGPWDHGRPDHIL
7280	15331	A	7945	3	312	VCPCSQLNKAITSTTRCLRGFVCSSSCYR RRARERGM EKQTQRERERQR*RERQRR GEERQRGGKREPHSRARGGGGSRERER VREL*SDSDRSLEREALLR
7281	15332	A	7946	225	720	GLAHS AVRHSSFWGHLQDSGPLVPPGA GQGSGLLAAEWVGKASWPAPACPT PHSEALVCSFRTSPSTPHAHPGVSGPA SVLAALRLGLHLLRGCGGGTPTSPQTLQ DEEAN*GHRGHGDRLLRLTQAPT A Q P L WHRPWQKDWP N L L P R P L S F W C R P P P R P
7282	15333	A	7947	43	418	AYWGRKTPWLTISF W P T P G S P Y D N G R PLCYSDSAVLLCFDISRPETGDSALKKV RLDQLSNL*LSMRTKKESGPGCHECLLTS RNGSQGRKRF AQGHTISYSSGTGTWVSL PHCLPPFLLSH
7283	15334	A	7948	2	221	AGPGGSPHGYVGSPLRISTRHL CFAATR SLLHIDPLIVLPLVDLKDRII*NLWGLQP LPPASLLQPTALYS
7284	15335	A	7949	1	409	SPGTCGRRPQTM/PPGAPDFPAVEGRSLG LSPSQGGPAGAGGDAGPQEDVRQPPGEL AHGPLLPAQTG/SPGPQGLWLHRNPTS/G PPSQIGEGAEQGDEGVADAPQIQCKNVL KIRRRKMNH HKYRKL VKKTRFLRRKV
7285	15336	A	795	23	153	
7286	15337	A	7950	2	361	YSTSPAGQVGR L S P S Q G G P A G A G D A G P QEDVRQPPG/EAGSRPAASCPDWIPG/AA GHVAPPQSYQC P P S Q I G E G P G G T P E T Q A DQVRERPEAH LAEGGAKGSPRRAGRPPR STCGANESG
7287	15338	A	7951	337	1067	NLKAHPRRPFNPPLASGPFLILAGADTW *GIGGWKPTSSLRVPGIQSGAGSERGREP SSPGG*RTSSWGPASPPAPAGPPCEGERP RLPGPAGDVL*RETADPAAQHSMRQAK AGGRLPKERPSTAGKSGAPGAWSVGGG HRSQGSSTR L K L T V L R P P S G T S G P S P S R P RSAAATRRFLRTAPAGVLAAPDSALAAQA PPGPKGDGFRGCGPWIYPQVQNRFRITQ GPDSQRADGSAGSRLRK
7288	15339	A	7952	127	440	SLRYTFLYTFPILEHII V L M Q Q T C C L H G F I SIYLLIHTFILOIHPFHTLFQQTCS SIQQLY FLV*YFAYVYTFILYLSYPFLYYY*AC FETFDSFNEIGRV
7289	15340	A	7953	2	341	
7290	15341	A	7954	288	802	GVIMATSELSCEVSEENCERREAFWAEW KDLTLSTR/AEREGCSLHEEDTQRHETYH HQQGQGVLAQRSPWLMRMGILGRGL QEYQLPYQ R V L P L I F T P A K M G A T N E E R EDTPIQLQELLALETALGGQRVDRQEVA EITKQLPPVVPVSKPGALRRSLRSMSQE AQRG

7291	15342	A	7955	72	488	HEAGSRMNGDHNSDVFSQD*QDFVQHF CQIGRVLTEDEMGHPEIGDAIARLKEVLE YNAIGGKYNRGLTVVVAFRELVEPRKQ DADSLQRAWTVGWCVE/ADDIMDSSLT RRGQICWYQKPGVGLDAINDANLLEACI YR
7292	15343	A	7956	1	236	GTRVVAFRELVEPRKQDADSLQRAWTV GWCVELVRGVGQGRSFLQWW*LGWE GEGWA*NLFLGCVCVSLSLVCYQGI
7293	15344	A	7957	317	1395	TGDQNSDVYAQEKQDFVQHFSQIVRVL TEDEMGHPEIGDAIARLKEVLAEYNAIGG KYNRGLTVVVAFRELVEPRKQDADSL PAGPWTVGWCVELLQAFFLVADDIMD SSLTPGNRSCWYQKPGVGLDAINDGN LLEACIYRLKLYCREQPYLNLNELFL QSSYQTEIGQTLDLLTAPP/QGNVDLSEF TEKRYKSIVKYKTAFYSFYLPAAAMYM AGIDGEKEHANAKKILLEMGEFFQIQDD YLDLFGDPSVTGKIGTDIQDNKCSWLVV QCLQRATPEQYQILKENYQKEAEKVA RVKALYEELDPAVFLQYEEDSYSHIMA LIEQYAAPLPPAVFLGLARKYKRRK
7294	15345	A	7958	3	484	ETPVPATSAAIRILVLLPSLRVTSPGRQGP SVDRVVFPFFKFRPERSRHAAAGPNVVR PQPKPHEVGGERRGRPNAPANSFRSCSN LSPQYSLPKQNKSSNP*IPNKPTPPASPS GRTDGLSLQPLPGSDGQASPTMRSSPAI SSALEIEFGKTNPFH
7295	15346	A	7959	3	432	SGSSRPRGSAQPRPGPGACGMAAPTSE*S SPPAWQPRPPCGGLHHCPACVHPHRDSG GSVPAPAAACCHTHGRPWPEFEGQRPQT QPQPQGPWVRPVLTLFAGRVASVPLVS LCAWASGSQPGPPSGSGRALCTGLGAP PA
7296	15347	A	796	84	358	APRADAMGHFTEEDKATITSLWGKANV EDAGGEALGRLLVVYPWTQRFDFSG/Q LSELHCDKLHVDPENFKLLGNVLVTRFA IHRKEFTPE
7297	15348	A	7960	2	331	VCKLQQLPAHSGSPNIHISQLCPSHAW GLLVLSGCVTLRESFFLCFALVLQRKS SSLGILSCPGSIFTALNSTNLYLGLGGF CLVFF*DRVSLCHPGWSEVVQS
7298	15349	A	7961	25	364	LFYLYHLLFFGFGLFLFLIKLGSSLFINFS KKSVL*FTNWIYFSVLYFTDFCFIHSFFG FSLIYFIIVGFPLKFIGFILSFI*ITVYFGQA QWLTPVIPILWVAEVRGSL
7299	15350	A	7962	174	469	NGPP*RKKFFLSIPRKIWAPPGFF*/EGPPL FFFFFFLTESCSVA*PGMRWHNPGLLQPL PSGFKQFSCLSLPSSWDYRCPLPHPANFF VVVFLVETEFC
7300	15351	A	7963	65	2774	
7301	15352	A	7964	243	687	PHPIPHSEENFEFLIVSSTGQTWHFEEASF EERDAWVQAIESQILASLQCESSKVKV RV*GGVEDWPQELTLVLTAGNDTAEVV *EESRGV*EGGGAWRQSQCPQPSLQLR TDSQSEAVAIQAIRNAKGNSICAHASAD AWVEA
7302	15353	A	7965	3	368	PSDPEVAGDPIFPPGPPSCPEVKDKTKSSI SLGWKPPAKDGGSPIKGYIV*MQUEEGTT DWKRVNOPYKLITWECGGPNLKELRK YRFRVKAVNEAGESEPRDTTGEIPATDIQ EEPEVFID
7303	15354	A	7966	3	78	FKIQNLIASTVRTVMVADCSRFDSPDLLL EAGDPATSPCRIFDLGSDNEEVVAIPDPS HPKEGLSYSLSCVLLGRSLPRCLISCYPL CLSVASGPHKFY*PHCQHRPHGDGGRLQ PLRQP

7304	15355	A	7967	195	345	NDISANPAIKKFWKLPKCPTTEGWLNT* LYIHLVEYYATLKVCGDLYVR
7305	15356	A	7968	2	801	WRNSADVWWYCGGPLLDTLPSNWSGT CTLVQFAIPFALAFLOPEKEKPQHRKIRE APYGSFDSQVYLDATGVPQGVPHKFA QDQIAAGFESIFWWVTISKIDWINIYY NQORFINYTRDAVKGIAEQLGPTSQMA WENRMALDMILAKKGGVCVMIKTQCCT FIPNNTAPSGSITRALQGLTALSNEAKN SGVNDPFGWLERWFGKWKGIASILTSL AARIGVVILFGC*VTPCIRGLVQRLIETVL TKTSLSSPPPYSD
7306	15357	A	7969	113	362	WLHAPECFSQCPSQSPS*LGCQGPESDP DPRSVVGPPLSQAGSPGRPGGTVITLCLL WPHLAPLFHLWSPGKCTSLLVVQHS
7307	15358	A	797	1	428	
7308	15359	A	7970	1	955	MTQPFNYSAFERIIFAGSPGHITVFSERSL LVRPRSHPEPKGEHYVTGSPTPENQRTS AAMSKPHSEAGTAFIQTQQLHAAMADT FLEHMCRLDIDSPP/RRPLPATPKPPPW VPWRPPSSAAVGP*SSPSLADVKSQVL VTCCLACHCHWQREEWVLVTLGQGCLS VSEFRV
7309	15360	A	7971	113	716	RSLGPCQHSWQSSPGGPRPQRPPLGLGP CTAQGRCHGTGGPDE/TVWGFRTVAMM GARGRYL/AHLVSRLEMGWGSYIRVHFT RPQEVPSGRSNSSPSHPAQ*GLWPLQHL RRTPEARAAPHIPISPSAC*VTICLPPFH RPRDQDHLAPARSASPTVPQPMVGRT PTP*TLTQRGSPGPMSPAPIPLAANDSDK PSST
7310	15361	A	7972	244	1510	KFPKKKTPPHLGMESAITLWQFLQLLL DQKHEHLICWTSNDGEFKLLKAEVAKL WGLRKNKTNMNYDKLSRALRYYYDKN IIKKVIGQKFVYKFVSFPEILKMDPHAVEI SRESLLLQSDCKVSPEGREAHKHGLAV LRSTSRNEYIHSGLYSSFTINSLENPPDAF KAIKREKLEPPEDSPPVEEVRTVIRFVT NKTDKHVTRPVVSLPSTSEAAAAFAFLA SSVSAKISSMLPNAASISSASPFSSRPSL SPKSPLPSEHRSLEAACHDSDSLEPLN LSSGSKTKSPSLPPKAKKPKGLEISAPPL VLSGTDIGSIALNSPALPSGLTPAFFTAQ TPNGLLL/TPS/PLL/SSIHFWGSL*SKFVP LSPARLQGPSTLQFPTLLNGHMPVPIPS LDRAASPVLLSSNSQKS
7311	15362	A	7973	1	1230	
7312	15363	A	7974	3	358	LPAPGARPEWLLFPAPVVGVLWTPQS IISLHFFLNPVGQTLSSSSSSSSSP*RT*LP MTLS*VGAVSGFKPISRPPPHSGHNSPS LSQPSLTILVSSNSPGSGKARGPQCPQAW L
7313	15364	A	7975	194	372	LFG*LKAPPPGLKQFSGLSLRRSGNYGPP PPPPVYFFVFLKKNGFPLVTQGGNLRT WG
7314	15365	C	7976	238	459	
7315	15366	A	7977	1	505	AGGAGEETPHQESQRQGCALPQEPLYP PCPAIHPPPLPLGGLLLFPSLPSLALSCMV PPPWAAQEGI*MENHQPEKKRLWGPPP ANSFPARPLNPHLFQAGTGCPPCPREVP TPSPWAEPPPLGPPSEIAHLTTVRRGA ALANVNHENISDTDENKLNAFVTA
7316	15367	A	7978	39	141	LSIRGLNIIKRQRL*DWIKQDSTLCCP* EIH

7317	15368	A	7979	8	532	FNYLLKFKIRRPPhAFQMFMSSQKKEG PETAESLSSHGCLSL*R*EISWAPPTCG AFPSSAATLGASPVLGASVPLGAAGMQR GRRGHRIPGDTWGLLLPGAGGTDAESPA HNWEP*TSVPPSRPGHPSGASGLQSGRP PL*GDCEWGRKAGKGHAY*VGPPELHT LPLSDP
7318	15369	A	798	2	476	VNVEDAGGETLGRLLVVYPWTQRFFDS FGNLSSASAIMGNPKVKAHGKKVLTSLG D/ASSASAIMGNPKVKAHGKKVLTSLGD AIKHLDDLKGTFAQLSELHCDKLHVDPE NFKLLGNVLVTVLAHFGKEFTPEVQAS WQKMAEDVTGVASALSRYH
7319	15370	A	7980	1	9786	
7320	15371	A	7981	27	13822	VPFSVAAAEPAQPARAARPRGRSPGA APPQLAMDPPRPALLALLPALLLLLL AGARAEEMELENVSLVCPKDATRKFHL RKYTYNYEAESSGVPGTADSRSATRIN CKVELEVQLCSFILKTSQCILKEVYGFN PEGKALLKTKNSEEFAAAMSRYELKLA IPEGKQVFLYPEKDEPTYILNIKRGIISALL VPPETEEAKQVLFDTVYGNCSHTFTVK TRKGNVATEISTERDLGQCDRFPKPIRTG
7321	15372	A	7982	40	400	ELFGHIALQTIAYSILWDLKFLMRNLALG GGLLLLLAESRSEGKSMFAGLMFMTLL HFDASFFSIVQNIQVGTALMILVAIGFKTK LAALTLVVWLFAINVYFNAFWTIPVYKP MHDFLKY
7322	15373	A	7983	1	900	FRAAGAGADGREPASERASRAEPPAVA MGQNDLMGMAEDFADQFLRVTKQYLP HVARLCLISTFLEDGIRMWFQWSEQRDY IDTTWNCGYLLASSFVFLNLLGQLTGCV LVLSRNFVQYACFGLFGIIFLYTIAYSIL WDLKFLMRNLALGGGLLLLLAESRSEG KSMFAGVPTMRESSPKQYMQLGGRVLL VLMFMTLLHFDASFLFLVQNIQVGTAL MILVAIGFKTKLAALTLVVWLFAINVY FNAFWTIPVYKPMHDFLKYDFQTMMSV IGGLLLVVALGPGGVSMDEKKKEW
7323	15374	A	7984	2	397	GRVGRPTRPPTRPPTRPPTRSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSG PFFGVSPCVPEILKSSSPRIGCPRN*AFPFK RGNL
7324	15375	A	7985	5	230	IGNFKNVFSIVNITTRQNTSTDIENLKNN HV*NTVSNS*YTVFSSACGTFTKISHLR H*TSLDKF*KLDVLWS
7325	15376	A	7986	1	366	NPSIVGGQDLCKGNYKTQIKDLLADGSS SSSSSSSSSSSSSSSSSSSSSSSSSPAGPM KTPTSFLIELGKTIVQFL*NQKRV*ITKVIL SKKPQKTENKTKLEAFHSTLCYLPSNYA TRL
7326	15377	A	7987	3	361	ISKKKFFLKGFFFLGFF*KKPPFFFFPPPPP G*RGKKKIFFFFWVKKNPLEKNFFSLFLK KGGPPTPPGGFFFFFKKKRAPQGGGPPKI FFFFFFFFFFFFFFFFFGDGVLLCCPGWSAV
7327	15378	A	7988	2	359	GLPS*HYSPPQLPH*SHSHTIAPKAEEKA NRKETHFSRSPQQISGRCPQDQSLAKV DFLDQLRPMVGHSLGRGPHLPKHMPT PEQIQEEPEAHHLPLVCEQLPLPWEDF VYGSSR
7328	15379	A	7989	490	583	NH*SPMFGYICVCFETESCSVAQAGVQ WYNRGSLOPPLPGPKGFVCLSLPSSWDY RRRPP
7329	15380	A	799	23	349	
7330	15381	A	7990	1	129	QPGPEGKIRFFLKIPNLTPSGGKSLKFPLF KRVKPENCLSLRG*GCN*PGPEGKIRFFL KIPNLTPSGGKSLKFPLFKRVKPENCLSL

					RG
7331	15382	C	7991	96	380
7332	15383	A	7992	202	499
					ILGFVQWHDHSSPQPKTPGLKQSSCLNF LSS*DNRHMPPGLANFFIFVEMGSCYVA QACLELLGSSNPLASVSQNAGITSMSQC TQLFLLLLNRFP AFL
7333	15384	A	7993	1	206
					NSSVFLHLQALGIPLHLAYVSVFPPTPG* GSGHGRSLLSISVGQGLPPQRPSPASPFH LDIIHQGP AW
7334	15385	A	7994	2	349
					TCHRKRKKRNPRHGEVGLGYPTDESAPP SAPALGPGEPRVPGSSSGRASGH*WYPN AVESP*EEGEL*GRRGETLVAEKKKKPR HGEVGPSPMEKKCLPISP*AGPRGP RRP WF
7335	15386	A	7995	269	364
					GHLAIGHPPF*MSFNHGRKTRTWNYLG SEEQ
7336	15387	A	7996	1	314
					PSRSFISNH*PHQDV*PRFFNGIHL*YSHT PGINHVEPEPNSTRSKACWEGFGSSNSG NGSFLGAR*VDVQEVLT TTTWRVIRVWN* CFGRNSAPMAQSKSSSES
7337	15388	A	7997	65	354
					YFYIYFSIYHFIAPPYYFSLVFLHLVCPYL SSFLSR*KIHVCLKDKFVNFS*TIPLSKL LELLESISLFFL*NVDFILEILPLY SAILK RVYF
7338	15389	A	7998	1	957
7339	15390	A	7999	97	4146
7340	15391	A	8	190	383
					TRMIHITSVYSHPHQAQLRGCEVLRHKA HLVLP A/WSTSCSGIPRGQQTAAQGY SR CFLAWSLEA
7341	15392	A	80	44	377
					TFFLYLENLNTAVRFWKLPYIHC FKNPG GAGLICIAPWLTKAFVFGSDYSLVTVR VK*VFKPFLKDVEIRR/FTWTIRQPD AV FLRVPDYHALIKQPMLETD*MRLANS
7342	15393	A	800	17	535
					APSPDAMGHFTEEDKATITSLWGKVNVE DAGGETLGRLLVVYPWTQRFFDSFGNLS SASAIMGNPKVKAHGKKVLTSLGDATK HLDDLKGTFAQLSELHCNHLDDLKGT AQLSELHCDKLHVDPENFKLLGNVLVTV LAIHFGKEFTPEVQASWQKMVTG VASA LSSRYH
7343	15394	A	8000	97	2728
7344	15395	A	8001	1	2295
7345	15396	A	8002	97	4027
					EKEPYEEISAEADREPQQLQNYWSEVRY TVRCIYRQAGTPLADDQDQSLVPDKEGV KELVDRLCERDPYQLYQRLEQQAREYV LEMKVRLRLQLSAAAKVKAPSGLQGP QAHQFISLLLEYGALCQAARSISTFLGT LENEHLKKFQVTWELHNKHLFENLVFSE PLLQSNLPALVSQIRLGTTTHDTCSED TY STLLQRYQRSEELRRVAEEWLECO KRI DAYVDEQMTMKTQRMLTEDWELFKQ RRFIE
7346	15397	A	8003	1	450
					GVPYKRHIEGF*PGLNGPLKFNGPSSSSS SDGLRLRFSGSGGQSPNWPVPLGSYQGR SRPVPPGSSAEFPSPASGGTHVPQLR ALPPLHGHSAAPHLSLALTVP PPVVRT L*GHWGPGPPTLDAPPSPSHLQVPLSSQG GIPPHWT
7347	15398	A	8004	16	303
					GENPLMRWPEALPGVFKTCFSPPT*GYG GGLMFLCHHADSINFSAFQPINNADFIVP IEIEGTHQVSCQPDHTQPRGWGVCLLP HLYWGPPPISG

7348	15399	A	8005	146	808	RIFSLCSAALSKKHGNPQDCSRRAPGNV PAAISRAPSLVLGLRARTVTRKGGLRPR KGEQGPIPSDPAVKGPGAEPQARFAP VYQILIGAPRWEPLLSTGGYTVSGSSPVV EVGTRANQPRQ*ALPASHLPPLASRSSSS SHLYTAAPPLVSRGSGGSAGRALDSSFP QHSLAKPRPSAGLEAPGHWGRTGGDRR RKGTGGEPHTFAEVEALPASARP
7349	15400	A	8006	111	369	FGPGPPL*SPLF*GSSSSHSGVGK*NPSFL PGGTPVFFKNPKFPPPWGGPPVSPLFWG GETGNWGNPGGGTLEGPGYPLALPGG K
7350	15401	A	8007	85	394	DWRRRRRDSRSS*REDCQSTIYVRKRAK SNCWCWSKEKSKSHERDSIPRIIEKRM SRSKGRDHENVKEKEKQSDSIGNDQEGS RSREKSNQFDSKSNERDH
7351	15402	A	8008	2	2255	
7352	15403	A	8009	1	1845	
7353	15404	A	801	17	533	
7354	15405	A	8010	12	450	SEPP*ITSVDPRVRGNASTGYGKIWLDDV SCDGDESDLWSCRNSGWGNNDCHSED VGVICSDASDMELRLVGGSSRCAGKVE VNVQGA VGILCANGWGMNIAEVVCRQL ECGSAIRVSREPHFTERTLHILMSNSGCT GGEASLW
7355	15406	A	8011	121	342	QNESVVHMKTF LAVFKLPLKIRQIKCIYI FYN*ELKLYSVILKYFFLYDFRPVCLVLS EIPFMSTWFLLVSTFR
7356	15407	A	8012	3	383	EKGPLSPKVLFNHLCQKAPRFKDFQQD SQELLHYLLDAGRTE*TKRIQASILKAFN NPTTKTADDETRKKVKTYGKEGVKMNF IDRIFIGELTSTVMCEEKANISTVKDPFIDI SLPIIEERVSKP
7357	15408	A	8013	18	280	KCRSRN*TA*FHRLNAKALSLLTLLNVY QKKHLVEILSYHNCDSTQTRNAPELDCLIR LQAQNIQQRHIVFLTGKESTPKLSTMNIG M
7358	15409	A	8014	3	271	FFLRQSHSVTRLECTGAI*AHCNLCPLGS SDSPASAS*VAGITGMCHHARLIFVFLVE TGFHHVGQAVLELL/NLMICPPQPPKVLG LQA
7359	15410	A	8015	609	921	FYLSEEAFFFFFETES/HLLSPRLECSG MMSAHCNLRPLPGSSDSPASAS*VAGITG GHHPAQLIFVAF/MYQPGFCHVGQAGQQ LLA*VICLPQPPKVLGITGA
7360	15411	A	8016	140	346	FPPICYLLEIGSHSVVQAGVQWHRHSAQ YP*IHEHKQSSCVSLMSS*HYSHVPPSPG NILL*RRGSCV
7361	15412	A	8017	2	348	AGVPPGNPPLWGGEGGSGPRGGGLKPG FPQRGNPFFFKKSQTPPGGGPPLIPPPW GGGAGGSPLPQGQRFO*TKIGPFPSPRGK KKKPPFPKKKKKKKRKEKSEMPGFMV LNA
7362	15413	C	8018	282	497	
7363	15414	C	8019	267	473	
7364	15415	A	802	160	434	LISVIPALWEAKAEDHMRSVQDQPGQR GKTPSLRKIHRLARHGGMHL*SOLLGRL KHKNRLNPGGKSCSEPRSHHCSSAWAT DQDSVSKK
7365	15416	C	8020	435	821	MKSRVIGWASGLKNEIFFFFFFFWRDR YRAMLPRLVLNLLFLIEPPVSILVKHWD YRHEPPPPRXRLPFCMMRLEGPHCFRDF ATTYKKQSVRTVAGLFSLIKFSAHTNLD QRIWDLNPISGYFPN*

7366	15417	A	8021	121	818	HSKGSQVQSPGPEPSSAGPKPGAQPOPT WGLAAPEEGREGGKCGRHCNSKPLSQ PCAGVWSGRGAEEGGAGPDHPARTGP PSSPSCSAGLPDL**GLKPPLEASSMDPGF VLEGGPRVREGVCQDGI*A*ELEEVPSPG GSATSGAATLSDRRGNGASQARLP*PS HWLPRAK*APQG*ASPGSPTACPAHPS WKGGSAGPGMGRGRVVGDGRGAWGT GSHCNPTPSS
7367	15418	A	8022	11	368	SFTCCFQMHTKLLCLNTLCNTFLSTGAFF LIVLTWLSPIAVRLSLNVISERPFLFILSVV DPCAHL YLSLLFVS*VLPQYVIALFVPH KRM*ETMYACLPVCP*LLTACLEHNCSTF I
7368	15419	A	8023	3247	5031	EGLRG TALLLTGGGRGP*GQPQQ/PGGP ASSPSPAAPGPAAPACSTALWPTVSL RAPSPCPPQRAGQGYGSWG/GEFG/NSM ASGGDG/EPLSQGLAPAGTPGLARLQGP GHWAVSLWPSLRGFPGGPQTGQSPLSQP HSALTGRGRSPGALGPPPPQRPHPAP DPARPQR*TPLTAGATTRPQHLPQGNCR CSLLLLFLLLLFLLLLFLLFFFLILFFL LIFLLLLFLLPISRLNRSQWDLGGGEQ HVREAHPPDPVEQPRPFSVIGEVSEFVLV GQTQRHSSWEAHLKWRHGEHLGLEVI GPLNPRKAWMPHLLQLGPRDAEHRGH ESVVASSEGRVAPVGRPHRAALSRAAAL NEGTTGARGAAAAGVRVMLRLQRGGG EHGGRQSSQGAVPREGVPRESVLLQLSL WACGVRLSPSRAGSRVQG
7369	15420	A	8024	87	567	KQPPPHGESAAWAATSRPGWLLCRPA EGRTPGWTAFDVHPTLMQKLPEHSGNFS GQSPPCQLEALPRPSTCPLGSSRGSGREG PLPPT*ELFPNGQSVRCQVGGPGYDSWC PGPGPAPCPPTP*M*GPQALTSAPGPNK HPGLELGRRGPERAPGPF
7370	15421	A	8025	2	347	KALACPPTCCVLGVHHA VSAGGFPGHR PLVRRHIA PAGHQVTL SFLHPTLCCHPKS NCTPCGSRRVPTPTPLPAPGPQAFCPVP GSHWLAWSPRGRSPPTSVAPTQPY*QPP SC
7371	15422	A	8026	3	359	HEGTVQQPQARGLYEDLLMSEGENDED DAGSDDNGDNIFSAIHLSESGRSDA*FG GIRPKQSRMLKENTRMVMDNEERLLFY EGDCGEASHGLEDSCLSYGSYEDPDPK WNTQNTSFC
7372	15423	A	8027	2	424	
7373	15424	A	8028	3	456	PQTQREPTMVLSPADKTNVKA AWGKVG AHAGEYGAEALERMFLSFPTTKNYFPHF DLSHGSAQVKGHGKKVADALTNVAHA VDDMPNALSALSDLHAHKL RVD\PNVFK LLSHCLLVTLAAHLPAEFTPAVHA\SLDK ILASVSTVLT SKYR
7374	15425	A	8029	3	198	RQGSCSVTQPGVQWNNLGLL*P*PPGLK QSSYLSSPSSWDYRCVPTRLANSYFKFI* YVFFCLF
7375	15426	A	803	1223	1338	RWPLWSFIETKRRTL*SQLLRRRLQENL LNLGGGCS
7376	15427	A	8030	1	346	LFAQPNPVTFKIRIYCMSKDIDKVRARP PEWEKICANHVYNKGLGSRIYKVLLLE* KNIVRLNQKANAQFYAGYKLRCYRKFS NKSIVNE*KVLLFMR*EYIPVSTHFICCVI L
7377	15428	A	8031	60	523	

7378	15429	B	8032	68	679	MGKEKXHINIVVIGHVDSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFKYA WVLDKLKAERERGITIDISLWKFETSKY YVTIIDAPGHRDFIKNMITGTSQADCAVL IVAAGVGEFEAGISKNGQTREHALLAYT LGVKQLIVGVNKM DSTGIALTGDFPSLE PRHVSTWLQHVVTIPTRNWHKCYCVGV VANFLN*
7379	15430	A	8033	53	1497	KLPLKAKMGKEKTYINLAVIGHVDSGK STTTGHLIYKCGGIDKRTIEKFEKEAAEM GKGSFKYAWVLDKLKAERERGITIDISL WKFETSKYVVTIIGAPGHRDFIKNMITG TSQADWCCPELLLLGVGEFEAGISKNGQ TREHALLAYTLGVKQLNAGANKMDSTE PPYSQKRYEEIVKEVSTYIKKIGYNPAT VAFVPISGWNGDNMLEP SANMPWFKG WKVSRKDWQCQLGTTLLLEALDCILPPT RPTDKLLRLAFQDA*QNGGIGTVPVGR VETGVLKPGMGVTFAPVNVYNGK*KS VEMHHEAFECKLFGDKCGAFNVKINV SVKDVRRGNVAGDSKNDPPMEAAGFT AQVIILNHSQGISAGYAPVLDCHTAHIAC KFAELKEKIDRRSGKKLEDGPKFLKSGD AAIVDMVPGKPMCVESFSDYPLGCFV RDMRQTVAVGVIAVDKKAAGAGKVT KSAQKAQKAK
7380	15431	A	8034	3	309	RFTGHYRMLSGEKPYEWIEWGKRLSSN TALTQHQRHTGENPFECCKGAFNQK ITLIQHQRVHTGEKPYEC*ACGKTFRWG GRFILHQNLPQTQKTPVQA
7381	15432	A	8035	3	366	RDSVVEILFEQDNKEQSVATLILDSLIQCP IDTRKQLAENLEMMFDVGKTQPPLKRA FSTEK*KFD*/TINLASQIFNQL*ANCTK YVGCFVIEDYSGSESILCLLALIYNSFDF VSLV
7382	15433	C	8036	310	546	MGIMSVPPHPQNVDPYPLDGEKILHILGF NPEIQLWEILFEQDNGRAISWPLLLGFPL YSVPIGHQGRQLGRRNLGRS*
7383	15434	A	8037	97	333	HRIRPICSPQYMEKVYVTKNNNYRILEID MNFFFPPETEGVGGQVLEVMPEELKPS IFFFF*DRVSLCHPGWSAVVQS
7384	15435	A	8038	250	378	TESLYLNTIKATYEKFTANITLNNEMLKA FSLRLDTR*EHSLS
7385	15436	A	8039	280	759	GYINNGGRKRRTTELKPTPRSCRAEGGG VEGGPPACPPPTNCLQRLQPHLGSCTEIS GQERE*GYINNGGRKRRTTELKPTPRSC RAEGGGVEGGPPACPPPTNCLQRLQPHL GSCTEISGQERESGGGEGNSGPSNNRVH GFSKAGHGLGVGEEEEERQLWL*TGRK QRPNIPIRRLQASLHLPASPCQPAVPG ALSSPRRWQPPASHSCSPSPRHTKS
7386	15437	A	804	1057	1354	SQHFGRLWQVNHLRSGAPAQPGQGGKT PYLLKIQKLAGRDGARL*SQLRRLRQE NRLNLGGGGCSEPRSCHCTPAWVTKR SFSKTNKQTENNKKRIL
7387	15438	A	8040	1	401	ILVLDPPPQPKLLSVKGNPEDFIFRQFFF SPYPLFPFPFSYAKPPVSNETFPFPHPRF SKLLSQPADMPPLPGSLP*LLHYSACM LHHLLFCSLAHCAFRLLSCQGCQYLHGL MHMFRSGHMHYAAAGRV
7388	15439	A	8041	32	378	CVYTFIC*EISGLFPVWG*YRK*GSSSSSS SSSSSSSSSHFNKYSSCMFNFF*NC*TVL QSGCTILLHHWCMRVLSP*COQHLAV FFSHAILLSV*LHLTVIFICIPQITS
7389	15440	A	8042	30	434	DGSSLCRPGWSAEQDCVSSGGEKKKKG RDNIEDEACSSRPSR*LFEENIHLVHALIE EDQLANIIDISAGSAYTILDEKLTLSKRFT RWVPKPLPSDQLQTRAFLMEILNGWD

						QDPEAFLQRIVTGDET*FYQR
7390	15441	A	8043	3	340	IPKPMAKLPFMKYRDLHTNLLYSRMETG PKHIPMKTLKIMEDIALGMDNLSLMNY LYLELTARNCMERDDMTDCEADFGLSR KRYSGENYLHCRIANRPV*GSAIESLAHR
7391	15442	A	8044	3	378	LIKKHVDFDLATNVQEEKIAALEDFAHQ LITAGHYAKGDIFSRNEVLDRWRRVKT QMIKRA*V*KSQTLQQFNRDVDENEA WISEKLHTASDDSYKDPTNIQLCKLLSK HQKHQAF*TELPAT
7392	15443	A	8045	169	375	SSSSLPLHITNNPLHQPLPPQLPAYTGA EGDPCALLS*YCLHLLNTEAVNNIITFLG KQPCCKRYDKV
7393	15444	A	8046	27	289	RSPKTHGGGRRWGMVRPGTAPT/PCCPH RPQLP/CQPLLGPE*SLLEGRSSSLDSGM EESQTHAAPACRTWCSDGPR*PWMGPA ARCSG
7394	15445	A	8047	3	284	LFLWRRQLTLTENPRWWPTLGDGQARD CSDACCPHRPQLPSSHCSQTKSSPIPEVPR PPKHR*GGVCAGPSHLPGGPGSSPSPCP WPGSGLF
7395	15446	A	8048	459	1020	EPPRGAEQGGVPGGKGPETSAAAPTPA REPERVPGGA/PAPECACAEVAAPAPA GGS/LPAGPRPWPRWAAGAP/QGDKG PGEAATSPA/RGDSGVEPRGGGVPLPRH AGPQARRCEPTLPHDLYSGQVQPEHRAA G/LHPRSSGTI*APCTTCRAA*V*DSSIPE SREELRPSKKRSFRSEKEK
7396	15447	A	8049	3	417	VTGKAFAQKAQLIVHQIHTGKKPYDC GACGKDFREKVHLVRHQRTHTGEKPYD RSEGRKAFSHKSDLIHHRVHTGEKPYEC CECGIAFSQKSPLIHCRIHTGERPYECIK CGKAFYHK*QLSIAHRAHTGDIAG
7397	15448	A	805	831	1082	SQHFGRPRRADHLRSGDRDHPAQHGETP SLLKRQKLASHGGRHL*S*LLWRLRQEN HLNPGWGGCSELRWRHCTPAWATSKNS F
7398	15449	A	8050	29	223	LIKKLASCNGEHLYS*LLKRLRWEN*SSL GV*GCGEL*SQHCTPTWVME*GPAQKH KNKTKKLL
7399	15450	A	8051	194	372	ICQPLSLSTANHPVLCLCFTHKNLHIFIA ALFIKSWKQP*CTSVDEWIWGLAPLY
7400	15451	A	8052	1	325	FFFF*DRVSLLLPKLECNGTISAHCNLR PGSSDSPASASSSFTIHVAPLPQLRHY*I FYDGTSLYAG*YSQNLLIYSAPRQPQY HFKDMNKILDSIQRSYTKI
7401	15452	A	8053	228	481	QFFRNTIFF*DRVSLLLPKLECNLSAISAH NLCLPGSSDSPASASRVAGITGTCHHTRL LAFVFLVETGFYHVSQSGLELLTSGD
7402	15453	A	8054	175	431	LIVKMPFLK*SWKIF*MSK**VMLIH*GF VFLFVCFF*DRVSLLLPRLCNGPISAH NLHLPDSSDSPASAYIKGFVRQLSHEE
7403	15454	A	8055	257	453	TKGGGYTQRTAIQFILFIYLFY*DGVSLL LPRLE*NGAISAHCNLHLPSSDSQKKTK KNFCTQ

7404	15455	A	8056	277	1230	ISFHLSTFGAPSF FFF FEMEF SLL LPRLEC NGAISAHRLRLPGSSDSPASASPVGWD YRHVHPRSANFV FFF SRDGVSPCWGLV SNSRPQMIPPSRPPKVLDTGLATMPGLCL ANFCGRNRVSLMCPWSPELKQSTCLSL PKCWDYRRAAVPGLFILFLRHRCPILT QDEVQWCDHSSLQPS TPEIKHPPASASQS SWDQRHAPLHLANFYFYF*FFETESHVS TRLECSGAILAHCNLC L PGSSYSPAPAS* VAGTTGAH/RRLANFFVFLVEMGFHHVR QVDARSLDLVICLPRPPKVLGLQDVSHH RPAYF
7405	15456	A	8057	1	467	FFFLF*EGVSLL LPRLECSGAISA/HCNLH LPGSSDSPASASQEDGITGVRYHAWLIL/ VFLVEIGFHHVGQADLKP*PQVIHPPLFF FFLRQSFALVAQAGVQWCDLSSLQTPPP RVQGILLAQPPEYL VAGFTGMRHHTRLF FFFAFLVETGFHPC
7406	15457	A	8058	274	321	
7407	15458	C	8059	69	254	MDHLYNXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXEIQFXXXXXERERNKNPFPAGD DIISRGVGO*
7408	15459	A	806	144	441	GYQLPLQDELVLGQFLFQVSKIRFFSARK ITCNSHFLLLKFF*FPHICK*VSFSSERAA AADRAGASHPRIHNLQRLQENSIRGPK YSSHTVSADAW
7409	15460	A	8060	32	169	NPVPPYPLCPALVFFLLIYLLIY*PSPLLR MSAPAGKGFLFLSL
7410	15461	A	8061	417	490	
7411	15462	A	8062	424	579	
7412	15463	A	8063	1	2157	GFQKRCRHRIAQLFAVGALVCCLVLLHL SAMISASRAAAARLVGAAASRGPTAAR HQDSWNGLSHEAFRLVSRRDYASEAIKG AVVGIDLGT TNSCVAVMEGKQAKVLEN AEGARTTPSVVAFTADGERLVGMPAKR QAVTNPNTFYATKRLIGRRYDDPEVQK DIKNVPFKIVRASNGDAWVEAHGKLYSP SQIGAFVLMKMKETAENYLGH T AKNV ITVPA YFNDSQRQATKDAGQISGLNVLR VINEPTAAALAYGLDKSEDKVIAVYDLG GGTFDISILEIQKGVFEVKSTNGDTFLGG EDFDQALLRHIVKEFKRETGVDLTKDNM ALQRVREAAEKAKCELS SSVQTDINLPY LTMDSSGPKHLNMKLTRAQFEGIVTDLI RRTIAPCQKAMQDAEVSKSDIGEVLVG GMTRMPKVQQT VQDLFGRAPSKAVNPD EAVAIGAAIQGGVLAGDVTDVLLLDVTP LSLGIETLGGVFTKLINRNTTIPTKKSQVF STAADGQTQVEIKVCQGEREMAGDNKL LGQFTLIGIPPAPRGVPQIEVTFDIDANGI VHVS AKDKGTGREQQIVIQSSGGLSKD DIENMVKNAEKYAEEDRRKKERVEAVN MAEGIIHDTETKMEEFKDQLPC/ADECN KLKEEISKMRELLARKDSETGENIR/QAA SSL/QQAS\KLFRNGLTKKMGS*AEEGS GSSGHWGNKREDSKGREKPVN
7413	15464	A	8064	500	752	

7414	15465	B	8065	1	1713	MALWRGSAYAGFLALALTWRDRKKKF PGDDEAPGVKRTWAAGAGMRGRQWLR KRVEVVCTGRSANTVCAGVRAAGLVEK SPPPSLSRVGRRFRFCGDLDCPDRVLAEI STLAKMVECTGSTLGGGGYKKILKLTA AKFVEEHEGKKDIDSPTFLSSASSWWSS SAYGSRRPGGFELKLIGQQGESGDVKAT VAVLSFILSGAAKHSVDGKSLASELQQL GLPKEHAASPCCYEEKQSPLQKHLRVC SLRTWSLAARVAEGTAETVDPSAAPKTS VWSSRVCWGRLLATISPSVNETDTCGME DRRLVVCRPWRAQCHMKAWGWRHPEE GGTHSGAPSAVLQALAVAIQLGGHLADP LLQVDPLSSCGAVSLDILYLVFYRTAS VPETYIVKTLFKKLESQSLIQSNVLRSN SMKAERGEEAAKEKSEASRGWFMRFKE RSCLHNIKMQGEAASADVEAAASYPKD LAKITDEHGYTKQQVRCIQNSLLLEGNA EEVRKIIVCSMSPPLKPGGPVTLVEEFLC ASKASVSAVSGWISKWRNWQEIRQEE REDRASLPDLQASES*
7415	15466	A	8066	1	3053	MRPGFVVSVGMVEGVPGEPPYPVLCT TPWPBGHDLPASRAALAQGRSWSLHRMI GQDSGRRRSRRQHFAPGTSSGLRSAPGL TRAGPAPPEAVSPSHVIVDSADLAGPEKE IPGPWLPRAMYEAAGVKRAWAAGAGM RGRQWLRKRVEVVCTGRSANTVCAGV RAAGLVEKSPPPSLSRMGRRFRFCGDL CPDRVLAEISTLAKMVECTGSTLGGGGY KKILKLTA AKFVEEHEGKKDIDSPTFLS SASSWWS
7416	15467	A	8067	330	452	
7417	15468	A	8068	3	347	
7418	15469	A	8069	3	1279	
7419	15470	A	807	165	1222	QSKRLNAKRYLLTDNVVKLKEFQQKKV AVACNLSGTKETYFRNLKKKLTONKLIL KGELITLLHLCESRDHVELAKNVIYRYH AENKNFTLGEY*FGPLFVRLCYQLDLEE SAGELMKDQHLRGFFSDTLFNILMDML FIKGKYKSALQVLIEMKNQDVKFTKDTY VLAFACYKLNSPESFKICTTLREEALLK GEILSRRASCFAVALALNQNEMAKAVSI FSQIMNPESACINLNIIHIQSNMLENLK TLKNAAEGLNSKFVKRHVFSEEVLAQV REKVKDVPALVAKFDEIYGTLHITGQVT TDSLDAVLCHTPRDRKSHTLNKNRMVS RRTFQPLSQSLLAE
7420	15471	A	8070	1	496	LLGVAPSRAFQEEILR/DRASFHE/RPNLF ALKHPTSKAECTAEKCYRVTKGRGIFPS GSPFKSVTLEDGKTFIPGQGNAYVFP VALGVIAGGIRHIPDEIFLLTAEQIAQEVF EQHLSQGRLYPPLSTIRDVSLRIAQVLD YAYKHNLDSTYWPKEAMNVQTV
7421	15472	A	8071	228	448	

7422	15473	A	8072	3	1877	EGEDRGLPRTMGAALGTGTRLAPWPGR ACGALPRWTPATAQGCCHSKPGPARVPV LKKRGYDVTRNPHLNKGMAFTLEERLQ LGIHGLIPPCFLSQDVQLLRIMRYERQQ SDLDKYIILMTLQDRNEKLFYRVLTSV EKFMPIVYTPTVGLACQHYGLTFRPRG LFTIHDKGHLATMLNSWPEDNIKAVVV TDGERILGLGDLGCYGMGIPVGKLALYT ACGGVNPQQCLPVLLDVGTNNEELLRDP LYIGLKHQRVHGKAYDDLDEFMQAVT DKFGINLIQFEDFANANAFRLLNKYRN KYCMFNDDIQTASVAVAGILAALRITN NKLSNHVVFVQGAGEAAMGIAHLLVMA LEKEGVPKAEATRKJWMVDSKGLIVKG RSHLNHEKEMFAQDVHPESENSLDEVVRL VKPTAIIIVAAIAEA\FTEQILRNMAFRR RAPIIFALSNPPRKAECTAEKCYRVTEGP RGFFASG\SPF*GVLIWEMGKTFIPGGRG NNAIYVFPGVATGVIA\GGIRHIPDEIFL LDSRAKLPQEVSEQHLASQGRLYPLSTIR DVSLRIAIVLDYAYKHNLV\SYYPEPKD KEAFCKIPGSYTPDYDSFYT/VDSYIWAQ GKAMNVQTV
7423	15474	A	8073	325	587	
7424	15475	A	8074	124	343	
7425	15476	A	8075	32	487	SRRHGSSLWGKVNVEDAGGETLGRLLV VYPWTQRFFDSFGNLSSASAIMGNPKVK AHGKKVLTSLGDAIKHLLDLKGTFAQLS ELHCDKLHVDPENFKLLGNVLVTVLAIH FGKEFTPEVQASW/QEDGDWSGQCPVLQ IPLSSLPMMQSFQG
7426	15477	A	8076	3	573	FCPRGQEFGEKNKLLVPDAHGVISQRR KATITSLWGK\VNVE\ DAGGETLGRLL VVYP\WT\QRFFD\ SFGNLSSASAIMGNP KVKAHGGKVLTLGRCQQTLDLKG FAQLSELHCDKLHVDPENFKLLGNVL VTVLAIH\GKDFTEGCRASWQKMGD VSGQCPVLQVPLKPLGP*IQ\SFQG
7427	15478	A	8077	2	347	
7428	15479	C	8078	213	263	MGFHHVSQDCLDLLTS*
7429	15480	C	8079	637	1452	MGIAAASVLGD LAVVFGMHVPAQADG QDHPQELDHGHTHAHAEDDAQVLLQPR LHLLHAALLVHRPVLRVATLGPVAGG LAEALPHRKAVVLFPLDFAGTGVGDLR AIHEL SVVCPVVEADPAAALHLSLHVVP GILQAVLATAVVVSNELSHDATHLLLQL AHVEVEEGPGRHLGNEDQEESKVQPQ QAADLV DGADAAQEAHEHSDCPHADED IGPHPKRAGGGLQDRDETALVGQDPHPE AQDHCAQDKEDQVEEEEKVFGDFDTG*
7430	15481	C	808	324	500	MGNWGRSSFLKLQNLVFLKMRSDQA QWLTPKIPALWEAEGGSSEVRSLRSW STW*
7431	15482	A	8080	226	314	
7432	15483	A	8081	2	350	KTLLFFFFRFEPHNLLTSMICGLVYNQ PPQHLVHILLKRIWPQGNILGINKKRP TVAHTCNPSTLGGRRGRITRSGVRD*PG QHSESPSLPTIQKNYPGVMAGACNPSYS GG
7433	15484	A	8082	172	287	IVYASEEKI*TFQEQGWPGAVAHTCNPST LGGRRGRITRSGDRDHPG*HRPP
7434	15485	A	8083	14731	15030	IAGCRPGAVAHSCNPSTLGGRRGGQ/TLR SGV*DQPGQYGETPSLLKIQKLGRRGGR RLKSQLLREAEAGESLEPRQFAVSRHR ATALQPGNRARLHLKK
7435	15486	A	8084	1	193	
7436	15487	A	8085	1	346	
7437	15488	A	8086	3	522	

7438	15489	A	8087	1	840	HMELPYGTLTDDMRRNLNIPVLQDDGFL FLWVTGRAMELGRECLNLWGYERVDEII WVKTNQLQRIIRTGRTGHWLNHGKEHC LVSSSGAQFNWSTKKNHLISY*EKVQR CGFIR*SVILW*AGGVKENPQGFNQGLD L*CDRS*GMCFSGLQSFHIFVGYQLFMV GCILIPRFFLI*IIIIIGKGLGAILCNLKKQ LVFIS*VRSTSHKPDEIYGMIERLSPGTR KIELFGRPHNVQPNWITLGNQLDGIHLLD PDVVARFKQRYPDGIIISKPKNL
7439	15490	A	8088	13	323	
7440	15491	A	8089	3	218	
7441	15492	A	809	1734	1910	NWVGGQQEGREFFQV*WATDLKSA*GE EIEPDIPKLKPGGQKWETGLRFLHFDK WFF
7442	15493	A	8091	3	332	
7443	15494	A	8092	1	1431	MHKAGLLGLCARAWNSVRMASSGMTR RDPLANKVALVTASTDGIGFAIARRLAQ DGAHVVSRRKQQNVDAQAVATLQGEGL SVTGTVCHVGKAEDRERLVATAVKLHG GIDILVSNAAVNPFFGSIMDVTEEVWDK TLDINVKAPALMTKAVVPEMEKRGGGS VVIVSSIAAFSPSPGFSPYNVSKTALLGLN NTLAIELAPRNIRVNC/LAPGLIKTSFSRM LGEPEDCAGIVSFLCEDASYITGETVVN LSVMFTGGGVCRAASWKEGGTGTPRTP RESRQREPGETSSTDQTENKVWNLPA NPQRPAAGPVRRKTNKQKGIASSTAKD SINIRTGKDIHTKTPSIGHQHQRPKVDKT TKMERNQSKKAETSRNQNVSSLPKEYKS SPAREQNWENKFDDLTDVSFRRSVITN YTQLKEHVLTHCKEAKNLDKMLNEWLT RMKNLEKSLNDLMELITTVQELHEGYTS FNS
7444	15495	A	8093	195	434	
7445	15496	A	8094	43	1601	SMHKAGLLGLCARAWNSVRMASSGMT RRDPLANKVALVTASTDGIGFAIARRLA QDGAHVVSRRKQQNVDAQAVATLQGE GLSVTGTVCHVGKAEDRERLVATAVKL HGGIDILVSNAAVNPFFGSIMDVTEEVW DKTLDINVKAPALMTKAVVPEMEKRGG GSVVIVSSIAAFSPSPGFSPYNVSKTVLLG LTKTLAIELAPRNIRVNCLAPGLIKTSFS RMLWMDKEKEESMKETLRNRLGEPE DCAGIVSFLCEDASYITGETVVNLSVMF TGGGVCRAASWKEGGTGTPRTPRESR QREPGENQARSSPRMALRPEFPESASTS WMGPEPVGNRERPCPKPARKVGASPRAL RRLGSATRMLSRALRAGVGARAPRPG GGRGAHATATVWSGLASAAALTARALL KRSLACAAAPQRCGWRRLLCSSLGSRG QGGQAHARGAHLRVRYGTASVFGTPRL VASQIQHVPSGPAPRPGASHPATPSIQL RQPLHLSFDIAVPGASSAGAGA
7446	15497	A	8095	2	172	
7447	15498	A	8096	3	823	
7448	15499	A	8099	346	461	
7449	15500	A	81	457	489	PP*ITLG*KTCSQARWLMPVIPTLWKA EVGRSLELRSLRPAWATRRNPSTKN/LKIS WGRQGSSELRSRHCTPAWQHSETPI
7450	15501	C	810	226	306	MTTSPPPSALQKKEMEILPVILRVPS*

7451	15502	A	8100	3	1560	SSLWRRQPELKAYRTMEYMAESTDRSP GHILCCECGVPISPNPANICVACLRSKVDI SQGIPKQVSISFCKQCQRYFQPPGTWIOC ALESRELLALCLKKIKAPLSKVRLVDAG FVWTEPHSKRLKVKLTIQKEVMNGAILQ QVFVVDYVVQSQMCGDGHSEKLDKF WK\AVIQVRQKTLHKKTFYYLEQLILKY GMHQNTLRKEIHDGLDFYSSKQHAQK MVEFLQCTVPCRYKASQRLISQDIHSNT YNYKSTFSVEIVPICKDNVCLSPKLAQS LGNMNQICVCIRVTSAIHLIDPNTLQVAD IDGSTFWSHFPNSLCHPKQLEEFIVIECSI VQDIKRAAGAGMISKKHTLGEVWVQKT SEMNTDKQYFCRTHLGHLNPGDLVLG FDLANCNLNDEHVNMNSDRVPDVVLI KKS YDRTKRQRRRNWKLKELAREREN MDTDDERQYQDFLEDLEDEAIRKNVNI YRDSAIPVESD TDDEGAPRISLAEMLEDL HISQDATGEEGASMLT
7452	15503	A	8101	1	171	
7453	15504	A	8102	3	231	RRQAQIAAGRVLVVALFGGCGGLHSRL DGAAI/CLPGHCHGSRVEVTYETHQCGL VGLKLLRGGREQSDRGGSGLT
7454	15505	A	8103	48	532	NLMNICRGPCLLPAGPFMRDLAAVA/SV GLP/LVRRQAQVAAGRVLVVALFEGCG GLHSRLDGAAICLPGHCHGSRVEVTYE APQCGLVGLKLLRGGREQSDEGGSLGLT *DAQLGPAGAEHPAIRAAWE*TAVIISLV SLEPRDGGGGRVARLGAREAINP
7455	15506	A	8104	3	421	AAEASVGL/PLRRQAQIAAGRVLVVAL FGGCGGLHSRLDGAAICLPGHCHGSRVE VTYETHQCGLVGLKLLRGGREQSDRG SLGLT*DGQLGPSAEDYTISSCPHLTGIV GLIPGLDSADGQGGRVPRLGARESVRDT
7456	15507	A	8105	94	582	LSHPLPLGRQAQIAA/GRVLVVALLGG CGGLHSRLDGAAICLPGHCHGSRVEVTY ETHQCGLVGLKLLRGGREQSDRGGSGL T*DGQLGPSAEHQSVSVPSLTVIISLRL EVGDGEVAVSPRAGAREAIRNSAPLVVA STTFKPHQVPRGLSCLLLMPRDVVPTVS TAQSAGEPDRGSQSGRGRG
7457	15508	A	8106	2	332	GSLQGLPGQSFSFGGLPLLGRQVRVAAG RVLVVALFGGFGGLHSRLDGAAICLPG HCHSSRVEVTDQTH*CGLVGLELLRGGR EQSDSGVGLGLTQDGLRSTSEDKVC
7458	15509	C	8107	30	653	MTCSPLLLTLLIHCTGWSHVSALTQPPSV SAAPGQQITISCSGSRNLVGNVFSWYQ QLPGTAPKILIYDNDKRPSGVPARFSGSK SGTSATLAITGLQTGDEANYC GAWDTS LDNWVFGGGTEVTVLGQPKAAPSVTLF PPSSEELQANKATLVCLISDFYPGAVTVA WKADSSPVKAGVETTPSKQSNKYAA SSYLSLTPEQ*
7459	15510	A	8108	484	632	PWSHFRRF*LTMRIFIEGLLSAGRRA/WM PWGGRDPSFGILQL*SPV\GGVRDENL* TFCRGHCLLHGAPFMRLDAAVAFVGLP LLRRQAQVAAGRVLVVALFGGFGGLHS RLDGAAICLPGHCHSSRVEVTDQTH*CG LVGLELLRGGREQSDSGVGLGLT*DGDL GPTSEDSKGATTSKRAAVIISLVVSLEPR DCQGGRVGRHGAREAINP

7460	15511	B	8109	27	1337	MAWTPLLLLFPLLLHCTGSLSQPVLQSS SASASLGSSVLTCTLSSGHSYIIAWHQ QLPGKAPRSLMKVEGDGSYKTGRGVDP RFGSSSGANRYLSISNFQSEADYCYQ AWDSSTAHS DTGRCGIVGRPPVRQCWP LLLLGLAMVAHGLLRPMVAPQSGDPDP GASVGSSRSLRSLWGRLLLQSPQRAD PRCWPRGFWSEPQSLCYVFGTGTKVTVL GQPKANPTVTLFPPSSEELQANKATLVC LISDFYPGAVTVAWKADGSPVKAGVETT KPSKQSNKYAASSYLSLTPEQWKSHRS YSCQLQWGLGLGASQGGFLYEPVSQCV VFGGGTKLTVLGQPKAAPSVTLFPPSSEE LQANKATLVCLISDFYPGAVTVAWKAD SSPVKAGVETTTPSKQSNKYAASSYLS LTPEQWKQAQKLQLPET*
7461	15512	A	811	168	258	GHLGPRQKQARGL*GHRAVQVLHNYVI PM
7462	15513	C	8110	54	410	
7463	15514	A	8111	1	175	
7464	15515	A	8112	1815	2017	GQGAVAHTCNPSTLGGQGGRITLRSGV QNQPDQHGETLSLLNISGVWWRAPVIAA FQEAETGESLEP
7465	15516	A	8113	1109	1482	
7466	15517	A	8114	266	399	
7467	15518	A	8115	6	361	
7468	15519	A	8116	688	1127	
7469	15520	A	8117	2	311	
7470	15521	A	8118	2	51	
7471	15522	A	8119	203	365	
7472	15523	A	812	229	434	TEELKRCRQTLPSGCGVLPWRARLAVG VS/GRRGRSSSPMLTPSAAPCGNPGSLTS NLPAAGCKPSCQAW
7473	15524	A	8120	152	314	
7474	15525	A	8121	11	380	RLHRFFLGESEQSPASSSSSSSSSLTPSQ TRQHGPLRSIMKDLHSDDYEEESYEVDD NDNDSKMERPANR*RTRSRVSLSDGSD SESRTSS*PLHYEPPLLYTNNNQILEVE SPITHSL
7475	15526	A	8122	124	1924	ITAEGRRRGYHTTPQQTSGPPGMASS CSVQVKLELGHRAQVRKKPTVEGFTHD WMVFVRGPEHSNIQHFVEKVVFHLHESF PRPKRVCKDPPYKVEESGYAGFILPIEVY FKNKEEPRKVRFDYDLFLHLEGHPPVNH LRCEKLTFFNNPTEDFRKLLKAGGDPNR SIHTSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSTFSKPHKLMKEHKEKP SKDSREHKSAFKEPSRDHNKSSKSSKK PKENKPLKEEKIVPKMAFKEPKPMSKEP KPDSNLLTITSGQDKKAPSKRPPISDSEEL SAKKRKKSSSEALFKSFSSAPPLILTCAD KKQIKDKSHVKMGVKIESETSEKKKST LPPFDDIVDPNDSVVEENISSKSDSEQSP AS\SSSSSSSFHTIPGPGQGPLARSIMKD LHSDD\NEEEADEAEDSDNDSEMERPV\N RGGSRRRV\SLSDGSDSESSSASSPLHHE PPPPLKTNNNQDSWKWKSPKQSK\SD* GKLKNGEC*QGLT*MELVGAFTGRFIDF EEERHILQQIVNLIETGHFHITNTTFDFD LCSLDKTTVRKLQSYLETSGTS
7476	15527	A	8123	2	319	
7477	15528	A	8124	1	323	
7478	15529	A	8125	31	118	
7479	15530	A	8126	1	4938	
7480	15531	A	8127	472	4356	
7481	15532	A	8128	2	236	
7482	15533	A	8129	503	638	

7483	15534	A	813	1060	1542	GRDMVAPDASWKEASGCNAPARICPGQ AFRANGCSDPTLGIQHQRLEFRSRLSPKVL GPVGPQWELGGE*DEAPSASFHWEVL GRLLVGASGSPSVKQEPAAALERARVPGD AARRQPRDRKGPPGPPCCSEHPAPVRAP LVAGLGDAGSGAPRAKLGVM
7484	15535	A	8130	464	2848	GETGMSTALHTTTVAMRCFMLGGGGGP TYGPPQPWGHPDVHIMQHHLVPIQARLG SIAEIDLGVPPVPMKTFKEFLSLDDSD ETEAVKRYNDYKLDFFRQQMQDFFLAH KDEEWFRSKYHPDEVGKRRQEQARGALQ NRLRVFLSLMETGWFDNLLDIDKADAI VKMLDAAVIKMEGGTENDLRILEQEEEE EQAGKPGEPSKKEEGRAGAGLGDGERK TNDKDEKKEDGKQAENDSSNDDKTKKS EGDGDKEKKEDSEKEAKKSSKKRNRK HSGDDSFDEGSVSESESESESGQAEEEE EAEALKEKEKPKEEEWEKPKDAAGLEC KPRPLHKTCSLFMRNIAPNISRAEIIISLCK RYPGFMRVALSEPQPERFFRRGWVTFD RSVNIKEICWNLQNIRL/RECELSPGVNW DLTRVRNNGITQHKQIVRNDIKLAAKL IHTLDDRTQLWASEPGTPPLPTSLPSQNPI LKNITDYLIEEVSAAAAELLGSSGGAPPEE PPKEGNPAEINVERDEKLIKVLDKLLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEELTP LLSVRESLSEEEAQKMGRKDPEQEVEKF VTSNTQELGKDKWLCPLSGKKFKGPEFA RKHIFNKHAEKIEEVRKEVAFFNNFLTD AKRPALPEIKPAQPPGPAQILPPGLTPGLP YPHQTQGLMPYQGP RPPI LGYGAGAVR PAVPTGGPPYPHAPYGAGRGNYDAFRG QGGYPGKPRNRMVRGDPRAIVEYRDL APDDVDFF
7485	15536	A	8131	2	433	
7486	15537	A	8132	1073	3545	GETGMSTALHTTTVAMRCFMLGGGGGP TYGPPQPWGHPDVHIMQHHLVPIQARLG SIAEIDLGVPPVPMKTFKEFLSLDDSD ETEAVKRYNDYKLDFFRQQMQDFFLAH KDEEWFRSKYHPDEVGKRRQEQARGALQ NRLRVFLSLMETGWFDNLLGH*TKLI AIVKMLDAAVIKMEGGTENDLRILEQEE EEEQAGKPGEPSKKEEGRAGAGLGDGE RKTNDKDEKKEDGKQAENDSSNDDKTK KSEGDGDKEKKEDSEKEAKKSSKKRN RKHSDDSFDEGSVSESESESESGQAEEE KEEAEEALKEKEKPKEEEWEKPKDAAG LECKPRPLHKTCSLFMRNIAPNISRAEIIIS LCKRYPGFMRVALSEPQPERFFRRGWV TFDRSVNIKEICWNLQNIRGARSLNRWC SRGKGLRAAVSLASGLRECELSPGVNDRD LTRVRNNGITQHKQIVRNDIKLAAKLI HTLDDRTQLWASEPGTPPLPTSLPSQNPI LKNITDYLIEEVSAAAAELLGSSGGAPPEE PPKEGNPAEINVERDEKLIKVLDKLLYL RIVHSLDYNTCEYPNEDEMPNRCGIIH VRGPMPPNRISHGEVLEWQKTFEELTP LLSVRESLSEEEAQKMGRKDPEQEVEKF VTSNTQELGKDKWLCPLSGKKFKGPEFV RKHIFNKHAEKIEEVKKEVAFFNNFLTD AKRPALPEIKPAQPPGPAQIIHVPVRVVL PPGLTPGLPYPHQTQGLMPYQGP RPPI L GYGVPTGGPPYPHAPYGAGRGNYDAFR GQGGYPGKPRNRMVRGDPRAIVEYRDL DAPDDVDFF
7487	15538	A	8133	188	391	

7488	15539	A	8134	1	998	MAVMLHSAKWPLPVLQQGLTMQPPLPS KHISERSEEDSRQPLYSVILIFYEAGFAIL VFDKTDQPKKVKRDKEGHYIMVKGSM QQEELTILNIYAPNTGASSFIKQVLGDPQ RDLDSHTIIVGDFNTPLSILDRMLRQKIN KDIQDLNSALDQVDLIDYRTLHPKSTEY TFFSAPHHTYSKIDHIIGSKTLLSKCKRTE IITNSLSDHSAIKLELRIEFTQNHHTTWK LNNLPLNDYWVNNEIKAEINKFFETNEN RDTMYQNLWDTAKAVFRGKFIALNGH RRK*ERSKINTLTLQLKELEKQEQTHTSKA SRRQEITKIRAELEKIDS
7489	15540	A	8135	1	1674	
7490	15541	A	8136	3	361	
7491	15542	A	8137	3	174	
7492	15543	A	8138	3	326	
7493	15544	A	8139	1	82	
7494	15545	A	814	166	437	ADHLKSGV*DQPGQHGEILSLKLQ*FPG RGG AHL*SQLLGRLLKQENHLNPGGGGC SEPRLCHWTPVRATVGDVQKK*KSQD GPRAKLG
7495	15546	A	8140	2	372	
7496	15547	A	8141	1	352	
7497	15548	A	8142	2	395	
7498	15549	A	8143	4274	5256	HTLFGDKLCTVATLRETYGEMADCCAK QEPERNECFLOHKDDNPRLVRPEVD VMCTAFHDNGETFLKK*VIRCL*FKIKK HGVTP*ANTL*KLP*QKYFQH*DLEVLL* *FFKEVVFDTTKFYAKNMKDKLFIET GYNLSQKFIDKFFNVFRRYVYVMVVID FVLVSNILPKFNHLCTHTHTHTLTLFST YLKNDRDKTIMCKLSLIG*LAESLEFGGS GENVDYNYFCNIVCYRK/ADCFSLKFR YLYEIARRHPYFYAPELLFFAKRYKAAF TECCQAADKAACLLPKVLCRIEKKSL SNLILSILWDLGLSV
7499	15550	A	8144	23	136	
7500	15551	A	8145	1	248	
7501	15552	A	8147	3	231	
7502	15553	A	8148	30	217	
7503	15554	B	8149	49	754	MAGAAPRLPWSRPHGSCGWPMQPLQ GPGRRAVAAAWEVATPVFMPVGTQAT MKASRPNSWTLWVAASAWAYLPSGSK AGGTAAPDGVAGVSVRGDGGGLRFRS PYDGNETLLSPENPCRSRMRAWPGVVT GALLQVNPLAGPVHAAHQRPDKQNLFA IIQVGWTOISGPPALKRFGSAWHSRAFLT HCCTVTTRPRCTTSRPHRLPAELMSAV RTSIVEKRFPDSCGTSWAPX*
7504	15555	A	815	3	238	SGDRDHPG*HSETLSLLKIQIAGRGGG RL*SRLRLRLRQENGVSPPGGACSEPRS HHCTPAWETERDSVSKKKKKKL
7505	15556	A	8150	1	593	RQSRWREQLPRLSWRLVPRIMRLVAEC GRSRARAGELWLPHTVATPVFMPVGT QATMKGITFEFLDALGCRICLGNTYHL GLRPGPELIQKANGLPRLS*IWPSLILN GTAAVFQMVSLVSLSEVTEGVFRFSY DGNETLLSPEKSVQIQNALGSDIIMQLDD VVSSTVTGPRVEEAMYSIRWLDRCICS H
7506	15557	B	8151	374	613	MTALDLFLTNQFSEALSYPRTKESMY HSLTYATILEMQAMMTFDPQDILLAGN MMKEAQMLCQRHRRKSSVTSFSSL*

7507	15558	A	8152	2	1922	VETPPQGSVHSGHLGSVVGDPTGTGN AGERGPRGKGARVLALDSSGMDSSPSLP LIRTPSSLHEALDQCMTALDLFTNQFS EALSYLKPRTKESMYHSLTYATILEMQA MMTFDPQDILLAGNMMKEAQMLCQRH RRKSSVTDSSFSLVNRPTLGQFTEEEIHA EVCYAECLLQRAALTFLQGSSHGGAVRP RALHDP SHACSCPPGPRQHLFLLQDEN MVSFIKGGIKVRNSYQTYKELDSLQSS QYCKGENHPHFEGGVKLGVGAFNLTL MLPTRILRLLEFVGFSGNKDYGLLQLEE GASGHSFRSVLCVMLLLCYHTFLTFVLG TGNVNIEEAELKLPYLNRYPKGAIFLFF AGRIEVIKGNIDAVSDGGPGRGWGSLGV SQTSRKSGTCDILRDRIDWGRGGGPREN QPESRGRRGPSGRAAWEDKGGGICGA WDFDWEI*DCSIAVEGGGGRCLEAEVR KAHLFRA*RLGWSLVPLHYSSLLLFHF VTKNQSPRRGLYLSPTSCKT*EVKPGLE ARSPGSWGPT*A*HRAGPLCPGGVPVCC GVGRFGGCRGVGAGWAPVRLTRRCLQ AIRRFEECEAQQHWKQFHHMCYWEL MWCFTYKGQWKMSYFYADLLSKENCW SKVG
7508	15559	A	8153	1	285	
7509	15560	A	8154	3	409	
7510	15561	A	8155	1	390	
7511	15562	A	8156	17	221	
7512	15563	A	8157	2	366	
7513	15564	A	8158	1270	1692	
7514	15565	A	8159	2	261	RPRRSSSTS*SPH*PPAVAAAPSGAPPWG LSCPRRPRAPPAAPEALGQGPSTRG AAEVAGAAGSRPPQPFYSDFQSRFCCIJS
7515	15566	A	816	4005	4345	SQHFRPRRADHLRSGVQDQPDQHGET PSLLGGRGGRITKSGDRDHPG*HGETPSL LKMQ/EKLAGRGGGRLWSQLLGRLRQE NGVSPGGRACSEPRSCHCTPAWLTEQDS VSKK
7516	15567	A	8160	44	463	
7517	15568	A	8161	2	318	
7518	15569	A	8162	1	349	
7519	15570	A	8163	38	368	
7520	15571	A	8164	43	376	LSMANGPPHCTECTAFPRESGKNCKVCI FNIDGTLVAWRTGQKADIISVSSKGLLH SFYLLKAVCLEFSPKNTAL*TGLPYSTSK DATAGIPNLQLYDVKTGTCLKSFLQK
7521	15572	A	8165	22	192	
7522	15573	B	8166	852	931	MYSPPDPRTVKSGVDGAMLSRKEKPLG*
7523	15574	A	8167	1	202	
7524	15575	A	8168	2	330	
7525	15576	A	8169	1	281	AAWILKARALTEMVYIDEIDVDQEGIAE MMLDENAI/PSSTPITQAGRPTGFLRPS TQSGRPGTMEQAIRTPRTAYTARPITSSS GRFVRLGT
7526	15577	B	817	1	9234	MGAPTLPPAWQPFLKDHRISTFKNWPFL EGCACTPERMAEAGFIHCPTENEPDLAQ CFFCFKELEGWEPDDPIEEHKKHSSGC AFLSVKKQFEELTLGEFLKDRERAKNKI AKETNNKKKEFEETAKKVRAIEQLAA MD*

7527	15578	A	8170	1	769	QAAWILKARALTEMVYIDEIDVDQEGIA EMMLDENAIQVPRPGTSLKLPGTNQTG GPSQAVRP/TSHEKPTITGLRPSTQSGRP GTMEQAIRTPRTAYTARPITSSSGRFVRL GTASMLTSPDGPFIN*SRLNLTKYSQKPK MAKALPEYIFHHENDVKTALELAALSTE HSQYKDWWWKVQIEKRYRLGMYREA EKQIKSSLKQEMVDFTLYLAKVYVSLD QPVTALNLFKQGLHKFPGEVTLGCIARI YE
7528	15579	A	8171	2441	2706	FCFGLSCSLPFFFFFFFEMESRSVAQAG VQWCDLSSLHPLPPGASSNAPASASRVAG TTGAYHQCLANFGFVFLVETGVSLCWL GWS
7529	15580	A	8172	1258	1733	ILFWIIQLNLECEFSWRLRQGRGIMLFFF PFLFFETESHVAQTGVQWCDLGSLOP PPPGLSDSPALASSVSWITDVRHHLWLIF VFLVETGFRHVGQASLKLPTSGDLPTLA SQSAGITGVSHYAWLIFVFLVETEFHHV GQAGLELLAPSDPPA
7530	15581	A	8174	196	390	
7531	15582	A	8176	84	307	
7532	15583	A	8177	3	383	DIKILIASPSATHIKETTRATSSPYRDTQ SRTASPNRAGKGVIEQTEKSHPRSPNVLS AALSQRITTVPEEELNPKILALQNAQRKR KMEHDGSLFQAVGI/DLACRL/LGQSM ESGLPQLTSYDCEV
7533	15584	A	8178	2	691	
7534	15585	A	8179	2	202	
7535	15586	A	818	1577	2233	SGCLLSPPSVGRQNSPVELGGAGLSRAG WAPQERGRAALLISPGPNVRGGPDWLP SVLQMRGLPLWDLGGRPDVGRMSPGGR PGSCWATQLRFHISLAPLFSWAGRSGS RLNPSTLGGRGGPITRSGDRDHPG*HGET LSLLKIQKISQACWR/CACSPSYGRLRQE NGVNPGGGACREQRSGHCTPAWATEQD SVSKKKKKKSGSTIRLKHILHKII
7536	15587	A	8180	1	62	
7537	15588	A	8181	116	333	
7538	15589	A	8182	55	351	QWSYLPQVMFTGENIPVHPHVYSNGHI CLSILTEDWSPALSVQSVCLSIISMLSSCK EKRRPPDNSFYVRTCNKNPKTKWWYH GKFEHRDIHKGKKM
7539	15590	A	8183	3	474	DGSIMASMQRKQLQKELLALQNDPPPGM TLNEKSVQNSITQWIVYMEGAPCTLYEG EKFQLLFKRRRYPPDSSQGMFTGENIT DHPHVYSNGHMLCLSLTKNWFALSVQS VCLSIISMLSSCKEKTTHDPDNSFYVRT CNKNPKTKWWYHDDTC
7540	15591	A	8184	1	232	
7541	15592	A	8185	3	367	
7542	15593	A	8186	1	203	
7543	15594	A	8187	2	333	ARVKRLGMFNIQHCKKLSSWVLLMKYL GNATAIFFLPDEGKLQHLENELTHDIITK FLAETFLHFPKLSITGTYDLKSVLGQLGI TKVFSNGADLSGVTEEAPLKLSKAD
7544	15595	A	8188	1	853	EYRRFLVDRHLQLTTGNGLFLSEGLYLV DKFLEDVGRLYHSEALTVPNGDTEEAKK QINDYVEKGTQGKJVDLVKELDRDVF LVNYIFFKGWERPFEVKDTEEDFHV QVTTVKVPMMKRLGMFNIQHCKKLSSW VLLMKYLGNATAIFFLPDEGKLQHLENE LTHDIITKFLNEDRRSASLHLPKLSITGT YDLKSVLGQLGVTGVFGRGSQHEKRRT EATKECRKTQNNRGTERVATAT*THNQ KRKRAQQGNTREKENGQRQEGPFVFL MIEQN

7545	15596	A	8189	3	157	
7546	15597	A	819	151	454	FQKIGPGAVAHACNPSTLGGRSRRITRSG GRDHPG*HSETPSLKIQKLAGRGGGCL *SQLLWRLRQENG VNPGGGACSEPRSRH CTPAWVTERDSVSKKK
7547	15598	A	8190	3	362	
7548	15599	A	8191	3	333	
7549	15600	A	8192	174	361	
7550	15601	A	8193	1	1143	VRCRPVRNSRVDPRVRMAAVFLVTLYE YSPLFYIAVVFTCFIVTTGLVLGWFGWD VPVILRNSEETQFSTRVFKQMRQVKNP FGLEITNPSSASITTGITLTTDCLEDSLLTC YWGCSVQKLYEALQKHVYCFRISTPQA LEDALYSEYLYQEYFILSSDIPISTEN*T SYG*SVANLLIILGILEACLLQNKHSPCI RTCSVYRISVSGTGFAFRLIYPLALIIRL LMDKVPLTY*SFLGY*KHVYCFRISTPQA LEDALWSEYLYQEYHFIKKDSKEEYICQ LPRDTNIDDFGTVP RSRYPVAL LTL SDE DDREIYDIISMVSVIHIPDRTYKLSCRILY QYLLLAQQGFHDLKQLFMSANNFTPS NNSSSE
7551	15602	A	8194	2	499	
7552	15603	A	8195	3	486	
7553	15604	A	8196	80	1281	LPAQKLDTCDEDETTALVCDNGSGLV KAGFAGDDAPRAVFPSIVGRPRHQVGM VGMGQKDSYVGDEAQSKRGILTKYP HGIITNWDDMEKIWHHTFYNELRVAPEE HPTLLTEAPLNPKANREKMTQIMFETFN VPAMYVAIQAVLSLYASGRTTGIVLDSG DGVTHNVPIYEGYALPHAIMRLDLA LTDYLMKILTERGYSFVTTAEREIVRDIK EKL CYVALDFENEMATG/PSIHPMEKS YELPDGQVITIGNERFRCPTL/FQPSFIG MESAGIHETT VNSIMKCDIDIRKDLAYA NNVMFGGHPRLYPWEFADRMQERDSP ALAPQAPMEDQGFIRPRRS AKYSVWIG RLPSWP SL SHLP SKMWITEAGSTDEAGP FPSSNRKCF
7554	15605	A	8197	2	228	
7555	15606	A	8198	1	369	
7556	15607	A	8199	1	416	
7557	15608	A	82	999	1523	WEMVEIWSYSSSEQEHQLIKLSYQRIKPL PHAHWWPFNPSGLPPEASK*PPG*TL/LGI FLGKKA*LQTFPLNYIRLENMQPRHGGG CPVIPTLWKA EVGRSLELRSRPAWATR RNPSTKNPKLAGGARAH L*SPGTPEAEV GGSP EP/GGRQGSSELRSRHCTPAWQHSE TPIS
7558	15609	A	820	1362	1647	
7559	15610	A	8200	2	396	
7560	15611	B	8201	1	555	MESTYMPINSGLDKENVESECKAYNPRP FCKTYTMDKQPLNTGEQKDMTEFFTDLI TKIEEMSP ELSLRCEELHLHAENLSRRV WELLMLLPTCPNMLMAFQNISDEQGSYS DLYPDSDDSSSEDQVENS KNSWSCKISSN FTSSSSKTIWYFSAVWEQLRYTLDNNVL KKS VIIQKDS ESYEYD*
7561	15612	A	8202	1	901	
7562	15613	A	8203	1	407	

7563	15614	A	8204	2	1149	PDLELPRARPQLVNSPGADKMETNSSLP TNISGGTPAVSAGYLFLDIITYLVFAVTF VLGVLGNGLVIWVAGFRMTHVTITISYL NLAVADFCFTSTLPFFMVRKAMGGHWP FGWFLCKFVFTIVDINLFGSVFLIALIALD RCVCVLHPVWTQNHRTVSLAKKVIIGP WVMALLLTLPVIIRVTTVPGKTGTVACT FNFSPWTNDPKERINVAVAMLTVRGIIRF IIGFSAPMSIVAVSYGLIATKIHKKQGLIKV QVRP*GALSFAKKAFFLCWSPYQWVA P**PTSQESREVNCKGMYQRKLGIAVDV NKVPLAFFNS/CAFNPMLVFMGQDFR ERLIHALPAKSGRGPLTEDFNPKPVPQLT NSTLPSAEVALQAK
7564	15615	A	8205	2	386	
7565	15616	A	8206	2	294	
7566	15617	A	8207	541	711	SEVSAMVFLFFFF/CFEMESRSAAQAGV QWCNLGSLQALPPRFTPFSCSLPSSWD Y
7567	15618	A	8208	2	1730	
7568	15619	A	8209	1	183	
7569	15620	A	821	10289	10708	SQHFGKLRQEDHLRSGVREQPGQHCKT PYLLKIQKLARRSGACL*SQLLRRLRQEN RLNPGGVGCSEPRLLHCTTAWTLQ*DPV SKKLKKKYIERQRYHQHMKHPWSTKIQ YVCMDG*HRSVEKQIIQTLCMFVFTHTY
7570	15621	A	8210	3	320	
7571	15622	A	8211	2	198	
7572	15623	A	8212	110	363	
7573	15624	A	8213	1	849	
7574	15625	A	8214	1	993	
7575	15626	A	8215	23	627	
7576	15627	C	8216	79	171	MDISGKCDFTVQVQLRFCLSETKATQP TN*
7577	15628	A	8217	3	630	
7578	15629	A	8218	1	188	
7579	15630	A	8219	1	2295	
7580	15631	A	822	662	766	
7581	15632	A	8220	143	5972	
7582	15633	A	8221	3	753	
7583	15634	A	8222	57	272	
7584	15635	A	8223	1	218	
7585	15636	A	8224	180	293	
7586	15637	A	8226	3	145	
7587	15638	A	8227	16	546	QLNGRSIRHEVMSHRKFSAPRHGSLGFL PRKRSSRHRGKVKSFPPKDDPSKPVHLTA FLGYKAGMTHIVREVDRPGSKVNNKEV VEAVTIVETPPMVVVGIVGYVETPRGLR TFKTVFAEHISDE/CRLPLRQKKAHLME IHVNGGTVAEKLDWARERLEQQVPVNP VFGQDEMIDVI
7588	15639	A	8228	3	348	TRHIVREVDRPGSKVNNKEVVEAVTIVE NTPMVVVGIVGYV/ETPR/GLRTFKTVFA EHISDECKRRFYKNWNKSKKIDLFIDTT SKLCHGRLQTMEKKAFMGPLKKDRIA KEEGA

7589	15640	A	8229	1	956	VNHAPAHASDGVMSHRKFSAPRHC\SLG FLPRKRSS\RHGKVKSFPMDDPSK\PVH LTAFLGYKAG\MTHTVRE\VDRA\PGSKVN KKIEVVE\AVTIV*DTTHWCLLGIVGYVG NPSEGLRD\TFKTCLLLEHISY*MPRRRFL *RIWALKS*EGRPLPKYCKEIGKDED\GK KPAWKKDFQQH*KKLLAQVHPCSAQT QMRLPL\ARQK\KAHLMEIQV\NGGTVA RESWDWAREKLE\QQVPVNQVFGQDEM NDV\GVTKGK\GFKGVTRS\WPTN*LPFK AHLG\LSRVACFGAWHPARAHWHVAR AGQKGYQPYTLLVHSDL
7590	15641	A	823	749	853	
7591	15642	A	8230	1	375	
7592	15643	A	8231	1	399	
7593	15644	A	8232	2441	2706	FCFGLSCSLLPFFFFFFFEMESRSVAQAG VQWCDLSSLHPLPPG\SSNAPASASRVAG TTGAYHQCLANFGFVFLVETGVSLCWL GWS
7594	15645	A	8233	1275	1749	ILFWIQLNLECEFSWRLRQGRGIMLFFF PFLFFFETESHVAQTGVQWCDLGSQ PP\GLSDSPALASSVSWITDVRHHLWLIF VFLVETGFRHVGOASLKLPTSGDLPTLA SQSAGITGVSHYAWLIFVFLVETEFHHV GQAGLELLAPSDPPA
7595	15646	A	8234	3	200	DALAFVIKVFAAEEVDGCSVTGGS/HNH SVASGNSHRTRFCFTVYLSSIVSWRY*SC RCRECRGRAF
7596	15647	A	8235	1	1214	
7597	15648	A	8236	24	183	
7598	15649	A	8237	256	491	
7599	15650	A	8238	243	385	
7600	15651	A	8239	3	403	SCYGFNVVRGQVSDGGQLRSINGELYAP LQH\NHVNVEGATHKQVVDLIRAREKEL ILTVLSVPPHEADNLYPSDDSLGQSFYDY TEKQAVPISVPRYKHVEQNGEKFVVYN VYMAGRQLCSKRYRQFMAILHQL
7601	15652	B	824	1	855	MDVVDPDIFNRDPRDHYDLLQRLGGGT YGEVFKLFAKCYTCIHTYDAMRVLFLM TKSGSQLPRLKEKGK\WYERV\TGGRSAN VHYIIVYCESVHFLPILLPTLSTKPLSSPEL NAAASYVPFPPIIHIDTAASMCYLFHMY VGVRAAGGIGDEIEDPAGDEYEL\YRVF DITFFFFVIVILLAIQGLIDAFGELRDQ EQVKEDMETKCFICIGSDYFDTTPHGFE THTLEEHNLANYMFFLMYLINKDETEHT GQSRALCRAFRGMRETGD\LRALKELA V*
7602	15653	A	8240	1	706	
7603	15654	A	8241	323	496	
7604	15655	A	8242	1	483	
7605	15656	A	8243	2	740	
7606	15657	A	8244	249	390	
7607	15658	A	8245	24	426	
7608	15659	A	8246	1	240	
7609	15660	A	8247	935	1150	
7610	15661	A	8248	190	584	
7611	15662	A	8249	201	364	
7612	15663	A	825	65	290	HLVSSLAKGKLAVRQAPFARVPPQHP*V KVKNWDP\LLQPPPCRGLALKVTGCRVL GTEGLPHLKDFPIRAATQPL
7613	15664	A	8250	1	1122	

7614	15665	A	8251	1	1197	MHKDWVVDVSGEHKEALLHELQLCDS TLKPAAHGQTRLVDLSLSEHKAQGTGA HVEERHQVSVSRDDVGCVPSECLAR ACGAEVGCSNIAYPKLVMEMLPI/GFSG AGDFPGPPLSNPLFLEAFDPGLRGLMIA VMLAALMSSLTSIFNSSSTLFTMDIWRRL RPRSGERELLLVGRGTIPSTPPAPQSRLSF LLPETPPLERYLLGLVMDLWLIVIVALIG VSVAWIPVLQDSNSGQLFIYMQSVTSSL APPVTAVFVLGVFWRRANEQGAFWGLI AGLVVGATRLVLEFLNPAPPCGEPDTRP AVLGSIHYLHFGVALFALSGAVVAGSL LTTPPPQSVQIENLTWWTLAQDVPLGTGA GDGQTPQKHAFWARVCGFNAILLMCVN IFFYAYFA
7615	15666	A	8252	1	624	
7616	15667	A	8253	88	627	
7617	15668	A	8254	3	437	
7618	15669	A	8256	220	415	
7619	15670	A	8257	2	359	
7620	15671	A	8258	1	1270	RTRGRTRGELVLESGEWRWLLERCRPG GAVALILLA VVS\CAVVSQHAPPWTEDC RKSTYPPSRPTYRGAVPWDTH/VLDLPP YKRWDELMLDMAPV/LSKVIVNSLKNMI NTFVP\SGKIMQVVDEKLPGLLGNFPGP FEEEMKGIAAV/SLDPLGEISFNIFYELF TICTSIVAEDKKGHLIHRNMGF\GVFLV WNINNDTWVITEQLKPLTVNLDFQRNN KTVFKASSFAGYVGMLTGFKPGLFSLTL NERFSINGGYLGILEWILGKKDAMWIGF LTRTVLENSTSYEEAKNLLTKTKILAPAY FILGQNQSGEGCVITDRKESLDVYELD AKQGRWYVVQTNYDRWKHPFLDDRR TPAKMCLNRTSQENISFETMYDVLSTKP VLNKLTVYTTLIDVTKGQFETYLRDCPD PCIGW
7621	15672	A	8259	108	988	TARGSKARSGGTRWSLGPSSSGGRRSW QPLVISRAV*H*GKSSRHQPLYSGHPHLG PVSHRGPGPVVRQPAAT*RPACASKLVQ PWH*WPGP*LGSPALAGHLCRTGCEES HHTCFPGYVKP*RL*ALPGGRP*VGER ARARPDEPREAAGFCGTEEQPHTDPAHP RLKRDCL/PSVSQA VSTTASAGFPPAW AASAGFPPTWTPNLSPATLGMQRSSCAL TFRICRFLSDNKWMQRSITSMIAIWICN GSGGSTSGRVSFSSSTLGGTDCSSSSLSKS ETFPSATSFSLR
7622	15673	A	826	230	652	GLSAPVAADPSLEPTPALHASIRPEADLQ P*PRTPLRSWGS/PGVRSPTGDPSGVT RLHRAIHQ/PITISSSTWVTCTGPLCSVLIS PSQQESAPKRTVLEEHLRPPPGAHADA HSGQLRAWPGQQRHGEASQWEQHP
7623	15674	A	8260	1	319	
7624	15675	A	8261	19	373	AVFFFFFFFFFFFFFFFFFFFFFFFFFFFFF FFFFSSSSSSSSSSFFLFFFKLKLRLVI *PLNPEN*ESCPLFSPVNLDMPT*TFKDKR WKVNWARSTSRQQLLESARTKSWAERE GGTRWRAW
7625	15676	A	8262	227	420	KNFLPNCSAKELFFFFFFFFFFFFLLLLLLL LYFKF/MI*WFKHLAFLLAFILSPTAL* RGVFHH
7626	15677	A	8263	400	582	
7627	15678	A	8264	1205	1681	
7628	15679	A	8265	1	403	
7629	15680	A	8266	3	397	
7630	15681	A	8267	36	446	

7631	15682	A	8268	1	453	RHERHERHEELMTEGEDQFDVGSAAAR KEIIRNKIRAIGKMARVFSVLREESESVL LKGLTPTGMLPSGVLGGRTLQSATVE AIEAEKAIRGFSPPHRCSFEEAKGLDRIN ERMPPRKDAVQQDGFNSLNTAHATENH GTGNHTAQ
7632	15683	A	8269	644	809	
7633	15684	A	827	108	1102	RMTQCLSECLICKFLSGKVTLGQAQWLT HVIPALWEAEAGRSPEVGRSRPSLAGMV KSRL/VLKIQKKKKKKKISRAWWHMPV VPATWEAEAGELLEPGKAEVAARRDRA TALPAWGSQADGK*G*GLSAPVAADPSL EPTPALHASRRPEADLQP*PRPPPLRSWG SQVCEVPGLGTPPGSPASQSHPTSPYL PLPGSPARVPCARCSSRPASKRARQSAPC GRAPTSPAARGSRRTQRAAQSLARSAA RTRTEASAVGTAPAAGRTGRGGPDQKE FVHGLVPLKQDNGRLQCTAQUERAPRAR TLRHTARPAAFGVLDLGGNHVLPQC
7634	15685	A	8270	37	235	
7635	15686	A	8271	2	230	
7636	15687	A	8272	516	693	
7637	15688	A	8273	2	434	
7638	15689	A	8274	3	417	RQAWHKAGLHAADWAGRARSLLGDSH TSWSAGSIPGKHYQAVGLHLWKVEKRR VNLPRVLSMPPVAGTVCHAYDREVHLR CELSPGYYLAVPSTFLKDAPGEVLLRVFS TGRVLSAIRAVAKNTTPGAALPAVERG T
7639	15690	A	8275	308	614	HGSHGIALRPRQSQAQPLVHKVCCFQEE QMGAPGEGKGPECGSRICRLLAQGLGFHL VCLDRV*HLAPHCSLSLHGCGPHDVPFL VAKRSFLGLEGLSSSP
7640	15691	A	8276	11	161	
7641	15692	A	8277	163	437	
7642	15693	A	8278	1	660	
7643	15694	A	8279	2	1246	SCSAPEELCSLRPTLGARRGNCEAKVTG DRAFOICSVDLGAPPPMLAARLVCLRTL PSRVFHPAFTKASPVVKNISITKNQWLLT PASREYAT*T*/RLGIRAWGELGQELKEGS IGNHSMGKNILKFDSDGEEWLVAIGGA/ VVGLGSICAYLLALGL/GLN*DLGAI*KR L*FGPQYVKDRINHSTYMYLAGGVGLT A/LSAIAIQNRLLFMELP*WRRLLGWTI GVDLWQPWLGAAGMLVRSIPYDQSPGPK HLAWLLHSGVMGAVVAPLTLGGPL/LIR AAWYTAGIVGGLSIVAMCAPSEKFLN MGAPLGSAGVSVFVSSIGI*CFPPPTD/T VAGATLAYSVAMYGGISSFLSMFLLYDT PESKSSRAEVS PMYGVQKYDPNNSMLS IYMDTLNIFMRVATMLATGGNRKK
7644	15695	A	828	241	1104	
7645	15696	A	8280	325	432	
7646	15697	A	8281	1	293	
7647	15698	A	8282	1	366	
7648	15699	A	8283	780	891	
7649	15700	A	8284	44	155	
7650	15701	A	8285	336	414	
7651	15702	A	8286	1	294	KLDTVVEFPIRGLNMSEFVCNMSARPYV YDLIAVSNNHYGAMGVGHYKAAAYVLFY QRRDDEFYKTPSLSSSGSSDGGTRPSSSQ QGFGDDEACSM D T N
7652	15703	A	8287	302	486	
7653	15704	A	8288	1	620	
7654	15705	A	8289	1	804	
7655	15706	A	829	95	462	

7656	15707	A	8290	164	399	
7657	15708	A	8291	1	2226	
7658	15709	A	8292	876	1102	
7659	15710	A	8293	2	426	
7660	15711	A	8294	1	128	
7661	15712	A	8295	33	279	
7662	15713	A	8296	198	779	
7663	15714	A	8297	1	441	
7664	15715	A	8298	132	700	
7665	15716	A	8299	303	617	AKPSSGFECRSRFAFLSKECGKQLGPSSSS ALSLSGSFFHLGAPS*PRTPRKSDGARCR PHPPSSMIGVQLLLGGCLAQHPHRAQL LDADVPTTISIKHVKGQP
7666	15717	A	83	2	448	LHCCPLQLKMOVACRAIGILSRFFAFRFLR SRGYICRNFTGSSALLTRTHINYGVKGD VAGARVINSTNSKVNTLITELQSQFSQVM NEILSSYQIRRAVLISSKPGCFIASSDINIL TACMTL*EVSHRSSEAQIIVQKLEMTTLS IVA
7667	15718	A	830	2	648	
7668	15719	A	8300	50	257	
7669	15720	A	8301	110	179	
7670	15721	A	8302	187	571	
7671	15722	A	8303	2	150	
7672	15723	A	8304	227	857	GDSRSRVTRRQDTAWNAWSASHCRRLS ASSRSPLTGPASVGGMAATGANAEKAES HNDGPVRLNPNIAKMKEDILYHFNLT SRH/NFPQALFGDVAKFVC/VGGSPSRNEK PSSGCR LGAE LGLDCPGRDYPNICAGTD RYAMYKVGPVLSVSHGMGIPISIMLHE LIKLLYYARCSNVTIIRIGTSGGIGLEPGT VVITEQAVDTCFK
7673	15724	A	8306	1	714	
7674	15725	A	8307	225	382	
7675	15726	A	8308	2	862	FLSVLPHSRALLTPKRAPKKKMAISGVP VLGFFIIAVLMSAQESWAIKEEHVHQAEP YLNPDQSGEFMFDFDGDEIFHVDMAKK ETVWRLEEFGRFASF EAQ GALANIAVDK ANLEIMTKRSNYTPITNPPEVTVLTNSP VELREPNVLICFIDKFTPPVVNVTVLWRNG KPVTTGVSETVFLPRIEDHFFRKHFHYLP FLPSTEDVYDCRVEHWGLDEPLLKH EFDAPSPLPETTENVV CALGLA VGLVGI IIGTIFHHSRELKSNCRQKRKGGLCKAQ WR
7676	15727	A	8309	2	223	
7677	15728	A	831	90	401	
7678	15729	A	8310	1	3252	MELSVTLVSRAPRPLPVFRQLNTAIAVS QMSSGQCRLAPLIQVIQDCSHLYHYTVK LLFKLHSCLPADTLQHRDRFHEQFHS RNFFRRASDMLYFKRLIQIPRLPEGPPNF LRASALAEHIKPVVVIPEEAPEDEEPENLI EISTGPPAGEPVVADLFDQTFGPPNGSV KDDRDLQIESLKREVEMLRSELEKIKLEA QRYIAQLKSQVNALEGELEEQRKQKQK ALVDNEQLRHELAQLRAAQLEGERSQ
7679	15730	A	8311	3	3253	
7680	15731	A	8312	1	673	
7681	15732	A	8313	177	393	
7682	15733	A	8314	177	400	
7683	15734	A	8316	1	473	

7684	15735	B	8317	549	602	MWWNSLDGIRNIVLSNPKKRNTLSLAM LKSLSQSDILHDADSNDLKVIIIISAEQPVFS SGHDLKELTEEQGRDYHAEVFQTCISKV MMHIRNHPVPVVIAMVNGLATAAGCQLV ASCDICRGERQDLFCHSWVPRKVALEM LLTGEPISAEALLHGLLNKGGPEAELOE ETMRIARKIASLSRPGVSLGKATFYKQLP QDLGTDYYLTSQAMVDNLALRDRQEGI TAFHLKRKPVWSHEPV*
7685	15736	A	8319	272	364	
7686	15737	A	832	276	488	
7687	15738	A	8320	1	322	
7688	15739	A	8321	37	344	
7689	15740	A	8322	3	412	
7690	15741	A	8323	37	438	
7691	15742	A	8324	2	424	
7692	15743	A	8325	543	848	
7693	15744	A	8326	2	242	
7694	15745	A	8327	2	246	
7695	15746	A	8328	294	402	
7696	15747	A	8329	259	350	
7697	15748	A	833	186	537	IWFPLRRRKARQEEKSGLGAPRSPSHNY PPGYLGCLGKTINTS*TYILDQSNIGKRVA VILN*ILGGRKLRLEKSLSCQPKVEELYE RVAV/IP*KPGCLLLVSVKVRNVFDWCT WVY
7698	15749	A	8330	2	409	RPPPPVSSVPGPRDQLGVTPLSGRHSL CCWVRIVFPESDGAP*MASFPPRVNEKEI GKLLNLVDHTEVVRDLTFAPDGSLLV SASRDKTLRVWDLKDDGNMMKVLRGH QKLVSYSCAFSPDSSMLCSVGASKA
7699	15750	A	8331	453	684	SLRFVLSVFCQSLLGKAESSKYDTRETP KAWKESAPELLGWAHSSGLTCDIKCC RARDLPWSGPKIHTSVMCPSS
7700	15751	A	8332	1	92	
7701	15752	A	8333	67	301	
7702	15753	A	8334	3	276	
7703	15754	A	8335	1	564	
7704	15755	A	8336	1	364	
7705	15756	A	8337	3	103	
7706	15757	A	8338	1	744	
7707	15758	A	8339	3	266	
7708	15759	C	834	79	405	MIGGTPQMFFISGAKGQWSPSLQPPRA HRSSPWAPSSKSTSGGTAALGSLGSKDY FPRTGDGVVELRRSDQRRHLPGCPTVL RTLLPQQRGDRDLQQLRHHELRL*
7709	15760	A	8340	481	637	
7710	15761	A	8341	1	3335	LNLKFEIEVLCKNLALDINELKPGNLLKD KDRLKNLDEQLSAPKKDVQPEELPPITT TTTSTTPATNTTCTATVPPQPQSYHDIN VYSLAGLAPHITLNPITPLFQAHPQLKQC VRQAIERAVQELVHPVVDRSIKIAMTTC EQIVRKDFALDSEESRMRIAHHMMRN LTAGMAMITCREPLLMISISTNLKNSFAS ALRTASPPQREMMDQAAAQLAQDNCE LACCFIQKTAVEKAGPEMDKRLATEFEL RK
7711	15762	A	8342	1	520	KMDSTEPPYSQKRYEEIVKEVSTYIKKIG YNPDTVAFVPISGWNGDNMLEPSANMP WFKGWKVTRKDGNASGTTLEALDCIL/ PPTRPTDKPLRLPLQDVYKIGGIGTVPG RVETGVLPKPGMVVMHHEALSEALPGD NVGFNVKNVDVKDVRRGNGAGDSTNE PTMEANGFT
7712	15763	A	8343	1	443	

7713	15764	A	8344	41	665	
7714	15765	A	8345	2	394	ADIERLRMRRVMAAAATHASAIISGWNGD NMLEPSANMPWFKGWKPTRKDGNASG TTLLEALNCGIGTVPVGRVETGVLKPG MEVTFAPGNVTTEVKSVEKHHEALSEAL SGDNAGFNVKNVSVKDVRRGNV
7715	15766	A	8346	1	461	MLEALDCILPPTRPDKPLHLPLQDVY KIGGIGSVPVGRVETGVLKPGMVVTFAP VNVTEVKSVEMHHEALSEALPGDNV FNVKNVSVKDVRRHGNVAGDSKNDPPM EAAGRFAVRDMRQTVAVGVKAQVDDK AAGAGKVTSAQKAQKAK
7716	15767	A	8347	1	743	
7717	15768	A	8348	208	945	NWFKGWKPTRKDGNASGTTTLEALDCI LPPTRPDKPLRLPLQDVYKIGGIGTVPV GRLETGVLKPGMVVTFATVNVTEVKS VENHLVAPLDCPRTFPGPTRPSTYIKKIG YYPDTLAFEPISGWNGDDMLEPSANMP WFKGWKPTRKDGNASGTTTLEALDCIL PPTRPDKPLRLTIQDVYKIGGIGTVPV RVETGVLKPGMVVTFAPVNGTT*VKS AMHHEALSEAHSDNVGNVKNV
7718	15769	A	8349	1	1434	RGITIDISLWKFETSKYYVTIIDAPGHRDF IKNMITGTSQADCAVLIVAAGVGEFEAGI SKNGQTREHALLAYTLGVKQLIVGVNK MDSTEPPYSQKRYEEIVKEVSTYIKKIGY NPDTVAFVPISGWNGDNMLEPSANMPW FKGWKPTRKDGNASGTTTLEALDCILPP TRPTDKPLRLPLQDVYKIGGIGTVPVGR VETGV/LFVPISGWNGDNMLEPRANMP WFKGWKPTRKDGNASGTTTLEALDCILP PTRPTDKPLRLPLQDVYKIGGIGTGPVGR LETGVLKPGMVVTFAPGNVTTEVKS LHEALSEAFPGDNVGNVKNVSVKDV HGNVAGDSKNDPPMEAGFTAQVILNH PGQISTGYAPVLDCHTAHIAKFAELKE KIDHRSGKKLEDGPKFLKSDAAIVDMV PGKPMCVESFSDYPSLGCFVRDMRQIV TVGVKAQVDDKKTAGAGKVTSAQKAQK AK
7719	15770	A	835	1	321	
7720	15771	A	8350	1	1254	
7721	15772	A	8351	1	1195	
7722	15773	A	8352	1	2471	MGKEKTHINIVVIGHVDGSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKSFKYA WVLDKKAERERGITIDISLWKFETSKY YVTIIDAPGHRDFIKNMITGTSQADCAVL IVAAGVGEFEAGISKNGQTREHALLAYT LGVKQLIVGVNKMDSTEPPYSQKRYEE MWLREVSTYIKKIGYNPDTVAFVPISGW NGDNMLEPSANMPWFKGWKPTRKDG NASATTLEALDCILPPTRPDKPLRLPL QDVYKIGGIGTDPAGRVKTGVLKPGMV/ VAPFAPVNGTTEVKSVEMHHEALSE/AL LLGDKGAFNVKNVSVKDVRRGNVAGD SKNDPPMEASGFTAQVILNHPQSQKNAR HMPLELDCHTAHIAKFAELKEIDRRS GKKLEDGPKFLKSGDAATVDMVPGKPM CVESFSDYPLGRFAVRDMRQTVAVGVI KAQVDDKKAAGAGKVTSAQKAQKAK
7723	15774	A	8353	184	819	ETEIKMASRGKTETSKLKQNLEEQDLRL MQQLQDLEECREELDTDEYEETKKETLE QLSEFNDSKKIMSGNMTLVDELGMQL AIQAAISQAFKTPKVRILCGKK/HPVQL RPR*AEMDRDLMVGKLERDLYTQKVE ILTALRKLGEKLTADDEAFLSANAGAILS QFEKVSTDGRPPSYMNYLLDSHPSKNI DVPSKISFLLKIQDL

7724	15775	A	8354	1	387	
7725	15776	A	8355	3	1022	FLASLQWVQTSSFSSEKFVITDLLKPTSV NLSKSFSVQLCSIAGGSLRPTPEIQEVKTP EELETFMLKHGENIIDTLGAEVDRLEKEL KSGSLVPCIPAAPAVTKRGQGTAPAIASV GGSPKPWQLPRGVGPVGAQKSRTTEVWK SLPRFQRMYGKHLDAQNDRSTDLSHSAP GKATDTQCQPLKAAKSGLYPAELKRWS CPWLWEPTFCISVTWSDLEQLRKIRRRSP HEDTESFTVYLRSDVEAKSLEVWGSPEA LAREKKLRKEAEIEYREKGSINSATL/EF SRYLSDDTRY/RTRSCAWCLKCICKIIPM ANSCSPNTCSLCLLYSSPALPWTLKFA
7726	15777	A	8356	4	516	
7727	15778	A	8357	1	248	
7728	15779	A	8358	3	4135	
7729	15780	A	8359	2	417	
7730	15781	A	836	101	290	
7731	15782	A	8360	43	239	
7732	15783	C	8361	141	356	MSFDCGFGTLPILLSPICCLGSYSNKVISP GLXXXXXXXXXXGGALLKDPWGGPIFP GGGKKFFFLFGGGF*
7733	15784	C	8362	22	159	MRGVFPLFPLKXXXXPKGLKIXXXGPI MSPPQKKVPFQKSQGGF*
7734	15785	A	8363	64	240	TLKFWKEGGPISPQKKGPFKIPRGGL *GPPKKKKNFSFPPVKLGPPKGIFKRAP P
7735	15786	A	8364	19	471	
7736	15787	A	8365	3	399	
7737	15788	A	8366	186	840	
7738	15789	A	8367	7	633	PTITNVWSETSQELADGLRRGSQGDVSQ QNGPPRKHIVERYTEFYHVPTHSDASKK RLIEDTEDWRPRTGTTQSRFRILAQITGT EHLKESEADNTEKANNSQEPSPQLASSV ASTRSMPELDSPTSGRPGVTSLTAAAF KPVGSTGVIKSPSWQRPNQGVPTGRISN SAAYSGSVAPANSALGQTQPSDQDTLVQ R*PTITNVWSETSQELADGLRRGSQGD VQQNGPPRKHIVERYTEFYHVPTHSDAS KKRLIEDTEDWRPRTGTTQSRFRILAQI TGTEHLKESEADNTEKANNSQEPSPQLA SSVASTRSMPELDSPTSGRPGVTSLTAA AAFKPVGSTGVIKSPSWQRPNQGVPTG RISNSAAYSGSVAPANSALGQTQPSDQD TLVQRAEHIPAGN
7739	15790	C	8368	78	386	MTHLEAQNKIKGCTGSLNMTLQRASAA PKPEPGSCSKAHSHQVRDFSGASRG REEDPRVTVNQNGKIPPRKPPHCG ALYRVLSCHTFTVMPARRD*
7740	15791	A	8369	20	442	
7741	15792	A	837	21	215	
7742	15793	A	8370	49	354	
7743	15794	A	8371	239	401	
7744	15795	A	8372	141	351	
7745	15796	A	8373	239	474	MRMVTWWRGVFLATSPSPRRPSQLEKQ YTALYRKATSPN*FAPNCYPDPQPHLG* LAPVAHVPL*QRRKAESPSSN
7746	15797	A	8374	1	740	MVSDIRKEDGMNVLPKYPNVGVNFSF AGVYLASETLPGSFAHPEATSRGAVATG TTHLASAVEPNGDSWCKQRSRVSVHYI RINITGWVCTCCDIERNIMLSPLNIRNNI TARLRPKGTQMPLREQRYTGIDENAHV VERRVF/RVPALHLRRPSQLEKQYIALYR KATSPN*FAPNCYPDPQPHLDRLAPVAH FPL*Q*RKAESPSSN*VARGTCTS*LSKP RTVWKDPVARNRPPVGPT

7747	15798	A	8375	803	985	
7748	15799	A	8376	1	319	
7749	15800	A	8377	339	808	GSQSQGGNRGWFSVPASRGVPPPAVMG VLRARGGRGAGSQSPPPGGCLPMPRWG SGATRSGLGLWWETSDGLEPTPSRRWWG SS*TL/GGSPVQVY*LVTPDSGSSH*KANS FCLSGDNLIGKKASFRSKQVNQLSSAGS KPNNVDGLGTVGCKVSA
7750	15801	A	8378	588	2278	GWAHGGEACFCVPALHLCRPSQLEKQY PVLY*KATSSN*FAPNYYPDP*PHLG*LP PW
7751	15802	A	8379	779	986	ELQLYWLCKKPPIDIRSHWKSC*AGISTS RLCQLLPKR*GSGVLPADSMMRGKVS SAWHRSLWSSPL
7752	15803	A	838	158	955	KMTSSSEQEEDKNNQSATPRQTGPATT MNSKGQYPTQPTYVPQPPGNPVYPQTLH LPQAPPYTDAPPAYSELYRPSFVHPGAA TVPTMSAAFFGASLYLPMAQSVAVGPL GSTIPMAYYPVGPYPPGSTVVLGGKGG YDAGARFGAGATAGNIPPPPG\CPPNAA QLAVMQGANVLVTQVRKGNFFMGGSDG GYTHLVRNQGHLCAREKTSHTLQHFSQ CNCFSHINLKLQFRHMLLGCLSGAQTR HFSNLIRNHVMVA VPP
7753	15804	A	8380	179	795	PAFFLIPGCAPPVG**IPSNVPAVGRS\DF SWTPYTHSPPDAGVEHPPWRTRLPWG VPAKGHQRGTATRS LGFWWDTSGGLEP TPPRRWGSS*LEEARSKCTE**HLTPD LPTERQTASGSQGRJ*C*RKHLS/WSKQV KQLSSAGSNPSNVYGLG/DCWM*SHCSL LNQAQLSRPVVLGLRLGNRQEGSV PWR LTRNYHSGKS
7754	15805	A	8381	1	1029	
7755	15806	A	8382	989	2798	
7756	15807	A	8383	2	396	
7757	15808	A	8384	3	1773	PGRQQAEGIMVQYELWAALPGASGV ALACCFVAAVALRWSGRRRTARGAVV RARQKQRAGLENMDRAAQRFRLQNPDL DSEALLALPLPQLVQKLHSRELAPEAVL FTYVGKAWEVNKGTCNVTSYLADCETQ LSQAPRQGLLYGVPVSLKECFTYKGQDS TLGLSLNEGVPACDSVVVHVLKLQGA VPFVHTNVQSMFSYDCSNPLFGQTVNP WKSSKSPGGSSGEGALIGSGGSPLGLG TDIGGSIRFPSSFCGICGLKPTGNRLSKSG LKGCYVGQEA VRLSVGPMARDVESLAL CLRALLCEDMFRLDPTVPPLPFREEVYTS SQPLRVGY YETDNYTMPSPAMRRVLE TKQSLEAAGHTLVFPLPSNIPHAETLST GGLFSDGGHTFLQNFKGDFVDPCLGDLV SILKL PQWLKGLLAFLVKPLLPRLSAFLS NMKRSRAGKLWELQHEIEVYRKT VIAQ WRALDL DVLT PMLAPALDLNAPGRAT GAVSYTMLYNCLDFPAGVVPVTTVTAE DEAQMEHYRGYFGDIWDKMLQKGMKK SVGLPVA VQCVALPWQEEVCLRFMREV ERLMTPEKQSS
7758	15809	A	8385	660	772	
7759	15810	A	8386	27	372	
7760	15811	A	8387	685	769	
7761	15812	A	8388	305	425	
7762	15813	A	8389	308	410	
7763	15814	A	839	217	491	
7764	15815	A	8390	3	501	
7765	15816	A	8391	4	318	
7766	15817	C	8392	340	474	

7767	15818	B	8393	317	702	LAEWRPREPMQRKLKVTSLPEPTVVITE QAVDTCFKAEFEQIVLGKRVIRKTDLNK KLVQELLLCSAELSEFTTVVGNTMCTLD FYEGQGRLDGALCSYTEKDKQAYLEAA YAAGVRNIEMESSVFAAI*
7768	15819	A	8394	209	581	
7769	15820	A	8395	227	1302	GDSRSRVTRRQDTA WNAWSASHCRRLS ASSRSPLTGPASVGGMAATGANAEKAES HNDPCVRLNPNIAKMKEDILYHFNLT SRHNFPTLFWFEKFGFLGGNPSRMKPF RCLGPEIGLDCPVRDYPNICAGTDYAM YKVGPSVLSVSHGMGIPSSIMLHELKLL YYARCSNVTIIRIGTSGGIGLEPGTVVITE QAVDTCFKAEFKQIVLGKRVIRKTDL NKKLVQELLLVSAELSEFTTVVGNTM CTLD FYEGQGRLDGALCSYTEKDKQA YLEAA YAAARVPQLFEMESSVFAAMCS ACGLQA AVVCVTLLNRLEGDQISSPARN VLSEYQQRPQRLVSYFIKKLSKA
7770	15821	A	8396	3	337	
7771	15822	A	8397	2	375	NHEKDDNSLKIISNASCTTNWLTPLAKGI HDNFGIVEGLMTTVHAITATQKTGDGPS GNWGVMAAGLSKTSSLPLLG/LGKAGG KVIPELNGKLTGMFRVPTGNVAGVDLT CRLKKPGKYDDIK
7772	15823	A	8398	3	1141	IRHEVRQSAASSFASPAEPHRSMTMGKV KVG VNGFGRIGRLVTRAAFN SGKVDIVA INDPFIDLN YMVYMFQYDSTHGKFHGT VKAENGLVINGNPITIFQEPKIPSKIKV GGDAGRLKYVVEFHLAVFTTMEKGLG ASFRCGGAKRVNQLPPSG*CPPCFGHG V*TIEKYDNSLKUISNASCTTNCLTPLA KVIHDNFGIVEGLMTTVHAITATQKT GWALPGNCGVMGPRGSSRTSSLPLAA AKAVGKVNPLSLNGEAHLGMGFRVPN ANVSVDLTCRLEKPAKYDDIKVVK QASEGPLKGILGYTEHQVSSDFNSDTH SSTFDAGAGIALNDHF/VSRLISWYDNEF GY\SNR/VVDLMAHMASKE
7773	15824	A	8399	1	374	
7774	15825	A	84	247	287	KRGFVLPPGLECGPIWVNGR/LRLGLP PFSGLSFPGSWDYGGLPPGRVKIWHFLE KRGFRGVARVGSTLLTGEPVVLGF*KPPF F
7775	15826	A	840	1789	2411	KTYWRKKVEKVVSNR/LVTSPC/CIVTS TYGWTANMGENH*KLQALKETTSTMG/ YYMASQRKHRGIKPLTSLIEYLKAKRPE GLIRTDKS\VKDL/VILLY\ETALLSSGFQS WKIPRHH*QVSYRMIK\GLGIDEDGPY LLDDTSA\AVNLKELPPLEGDDDTFTHG KEVGLILLGLRGWTLPSVLYNSSDNIFF QGCFLFLVNI
7776	15827	A	8400	127	420	
7777	15828	A	8401	3	509	KNRIKKISNLENLKS LDVLDLHGNQITKI ENINHLCEL RVNLARNFLSHVDNLNGL DSLTELNRHNQITFVRD VDNLPCLQHL FLSFNNISSFDSVSLADSSLS DITFDGN PIAQESWYKHTVLQNMMLQRH*DMEGE FTGRRKGVWHLF*PKKGGKRKEPGKS
7778	15829	A	8402	2	384	
7779	15830	A	8403	1	430	ERVGNVCSLEISNIQKGE GGEYMCHAVN IIGEAKSFANVDIMPQEERVVALPPPEFC RSKYGFKGGRRQRTKN*FRUFEMPPRFI MPICDFKIPENS DAVFKCSVIGIPTPEVK WYKEYMCIEPDNIKYVISEEKGSHTLIIR
7780	15831	A	8404	1	12064	
7781	15832	A	8405	2	383	
7782	15833	A	8406	1	1677	

7783	15834	A	8407	2	2580	GQKKLVLI LNKSDLPKENLESWLNLYLK KELPTVVFRAS TKPKDKGKITKRVKAKK NAAPFRSEVCFGKEGLWKLLGGFQETCS KAIRVGVIGFPNVGKSSIINSLKQEQMC NVGVHGGGLQGS MQVVPLDKQITIID\SP SFIVSPLNSSSALALRSPASNEVVKPMEA ASAILFQAD\VRQVVLKYTVPG LQGILW EFFTMLAQ RKEVWHQGGUPKCLEGA AKLLWSEWTGASLAYYCHPPTSWTPPP YFNESIVVDMKSGFNLEELEKNNAQSIR GENCVSLLSSSADRPVELLPVYMGLLSFP AIKGPHLANSILFQSSGLTNGIIEEKDIHE ELPKRKERKQEEREDDKDSHETVDEEV DKKLD SMGSKRRRATSPSSSVSGDFDDG HHSVSTPGSRKRRRLSNLPTVDPIAVCH ELYNTIRDYKDEQGRLLCELFIRAPKRRT DSEIYEDAVELQOFFIKIRDELCKNGEILL SPALSYTTKHLHNDVEKERKEKLPKEIEE DKLKREEEKRVEGIIQRLHYCTNPDSKPK YPAQRT PQIHLQGEVLFYESKFRTLEEVT VVLDT HII SINQPDYEVVSQPIDLMKIQ QKLKMEEYDDVNLLTADFQLLFNNAKS YYKPDSP EYKAACKLWDLYLRTRNEFV QKGEADDEDDDEDGDNDQGT VTEGLLK ISITQKIRPVVILFHYGESWNLLRADQRLI FAKSWPRASRYQQGHQDLFILRSDLPSQ VFIRDKLMERRNRRTGRTEKARIWEVTD RTVRTWIGEAVAAAAADGVTFSPVTP HTFRHSYAMHMLYAGIPLKVLQSLMGH KSISSTEVTYTKVFALDVAARHRVQFAMP ESDAVAMLKQLS
7784	15835	A	8408	2	259	
7785	15836	A	8409	1	257	
7786	15837	A	841	225	336	
7787	15838	A	8410	3	365	
7788	15839	A	8411	2	243	
7789	15840	A	8412	2	339	
7790	15841	A	8413	2	182	
7791	15842	A	8414	2	381	
7792	15843	A	8415	59	572	SGRPFFFFFSATGACLFPPGPGR LGAEY RQRHWGTWVWHGLELGR LGSNREGCA RACRDW SHPPRTERGPSGHGGITSARLG TGTGERLRSGCVQGLVGMGRPVDRA C* SVLEPGGTPGRANWALDVEKLG NKY*E NKSLWVSRP/RQRCD CRQDRPWERPRLQ VTPIARQ
7793	15844	A	8416	3	1735	
7794	15845	A	8417	2	441	
7795	15846	A	8418	412	569	
7796	15847	A	8419	2	2812	RGLAVFISDIRNCKSKEAEIKRINKELANI RSKFKGDKALDGYSKKKYVCKLLFIFLL GHDIDFGHMEAVNLLSSNRYTEKQIGYL FISVLVNSNSELIRLINNAIKNDLASRNPT FMGLALHCIA SVGSREMAEAFAGEIPKV LVAGDTMDSVKQSAALCLRLYRTSPD LVPMGDWTSRVVHLLNDQHLGVVTAA TSLITTLAQKNPEEFKTSVSLAVSRLSRIV TSASTDLQDYTYFVPAPWLSVKLLRLL
7797	15848	A	842	610	834	
7798	15849	A	8420	2	397	
7799	15850	A	8421	3	438	
7800	15851	A	8422	3	354	
7801	15852	A	8423	3	339	
7802	15853	A	8424	1	338	
7803	15854	A	8425	1	70	
7804	15855	A	8426	62	374	

7805	15856	A	8427	2	374	
7806	15857	A	8429	1	342	
7807	15858	A	843	36	351	
7808	15859	B	8430	212	587	MGKGSFKYAWVLDKLIKADRERGITIDIS LGKFETSKYYVTIIDAPGHRDFIKNMITG TSQADCAVLIVAAGVGEFEAGISKNGQT REHALLAYTLGVKQLIGGVTKMDSTEPP FRRKRYEEIVKGX*
7809	15860	A	8431	1	1386	
7810	15861	A	8432	66	1574	KLTPCLKPKWESVKTHINLAVIGHVDSG KS\TTTGHLIYKCGGIDTKNHLKNLTKEA AEMGKGSFKYAWVLDKLIKAEERERGITI DISLWKFETSKYYVTIIDAPGHRDFIKN MITGTSQA*PGLGGPLFGG/CSPLIVAAG VGEFEAGISKNGQ\TREHALLAYTLGVK QLIVGC*QKWDSTEPTTAQKILKEIV K/EKVSTFH*RKFGYNPDTVAFVFNFLV WN\GDNMLGAQVPNMPWFQGDGKVTR KD\GNASGTTLLWRALDCILP\TRPTDQ APLR\LPFQ\DVLPKIGGYLGTWFLVWPE WETGVL/RNPGMGVTF\APVNVTT\EVKS VEMHHEALSEALPGDNVGFNVKNVSV KDVRRGNVAGDSKNDPPMEAAGFTAQ VIILNHPGQISAGYAPVLDCHTAHIACKF AELKEKIDRRSGKKLEDGPKFLKSGDAA IVDMVPGKPMCVESFSDYPPLGRFAVRD MRQTVAVGVKAVDKKAAGAGKVTKS AQKAQKAK
7811	15862	A	8433	2	265	
7812	15863	A	8434	3	318	
7813	15864	A	8435	2	896	VGPRGMWRAGSMSAELGVGCALRAVN ERVQQA\ARRP/RGDLPAIQPRLVA\SVK TKPADMVIEAYGHGQRTFGENYVQELA LEKAS\NPKILSLCPEIKWHF\GHLQKQN VNKLMAVPNLFML\ETVDSVKL\ADKV NSSWQ\RK\GSPERLKVMGPGFNTSREEI YLF\SVSLLEGKHG\LPSETIAIVEHINAK CPN\LEFVGL\MTLG\SFGHDL\SQGPND FQLLSLPEETVVKS*RIPADQVELSMGL SADMQHAVEVRSTDVWIRSTV\FGEPDY SKKPTPDKCAADV\KAPLEVAQEH
7814	15865	A	8436	202	349	
7815	15866	A	8437	1	129	
7816	15867	A	8438	3	387	
7817	15868	A	8439	505	693	
7818	15869	A	844	3	259	
7819	15870	A	8440	46	3454	AGESIMDTDL\YDEF\GNYIGPELDSDEDD DELGRETKDLDEMDDDDDDDDVGDHD DDHPGMEVVLHEDKKYYPTAEVYGP VETIVQEEDTQPLTEPIIKPVKTKKFTLME QTL\PTVYEMDFLADLMDNSLIRNVT CGHLHHGKTCFVDCLIEQTHPEIRKRYD QDLCYTDILFTEQERG\GVGKSTPVTVVL DTKGKSYLFNIMDTPGHVNF\SDVETAGL RISDG\VVLFIDAAEGV\MLNTERLIKHAV QER
7820	15871	A	8441	2	639	
7821	15872	A	8442	60	345	
7822	15873	B	8443	26	384	MHHEALSEALPGDNVGFNVKNVSVKDV RRGNVAGDSKNDPPMEAAGFTAQVIILN HPGQISAGYALYWIAIVDMVPGKPMCV ESFSDYPPLGRFAVRDMRQTVAVGVKA VDKKAAGLAS*

7823	15874	A	8444	33	99	KLPLKAKMGKEKTHINIVVIGHVDSGKS TTTGHLYKCGGIDKRTIEKFEKEAAEMG KGSFKYAWVLDKLKAERERGITIDISLW KFETSKYYVTIIDAPGHRDFIKNMITGTS QADCAVLIVAAGVGEFEAGISKNGQTR EHALLAYTLGVKQLIVGVNKMDSPEPPY SQKRYEEIVKEVSTYIKKIGYNPDVAFV PISGWNGDNMLELCSNMPWFKGMKIV TRKDGNASGTTLEALDCILPPTRPTDK PLRLPLQDVYKIGGIGTVPVGRVETGVL KPGMVVTFAPVNVTEVKSVEMHHEA LSAELPGDNVGFNVKKCVVSRMFRGN VAGDSKNDPPMEAAGFTAQVILNHPIS QKNARHMPLELDCHTAHIACKFA*A*RK RFDRRSGKKLAEDGP*NSLKS*CWPLV DMVPWASPMCV*EASQDYPPLGRFWPF RYMRQTALRLGVNQQLDKKAAGVAG KVHQS LAQA*KPKWERKRLISTLSSLD T
7824	15875	A	8445	2	442	
7825	15876	A	8446	76	413	
7826	15877	A	8447	524	954	
7827	15878	A	8448	3	206	
7828	15879	A	8449	3	206	
7829	15880	A	845	3	661	
7830	15881	A	8450	3	327	
7831	15882	A	8451	56	324	
7832	15883	A	8452	33	159	
7833	15884	A	8453	2	494	
7834	15885	A	8454	130	716	LFARLPEAIPWRQKKESSAQIRLEPPSRA QGETGFSWLGPDTTHSRFWWWLGL/CG EGWAGIPLCFFSPRKYNTPIRDFLGPPL TGQGNKKTNRSSQTLPIEKPLSL*KL PSLRERE*LFIGLGVRA SPGSLISGLGA QACPQ/GLPCLCLYPCLRGPGQDFPNQPR POHPPSPQKPPSSFPHGSYVESLF
7835	15886	A	8455	1	578	GGRSVLPVDPRVRSHFPMTHGNTGLSAG LDASAQTTSHELTIPNDLIGCIIGRQGAKI NEIRQMSGAQIKIANPVEGSTDRQVTITG SAASISLAQYLINVSLENAPSSQAASVTI PDHLSINLSQPSTPSSFSSTTTPLATAG TSDAPSSLNPNSSDRPLCLQSAWHETHPF PGSPPPRLLLPATPPL
7836	15887	A	8456	2	875	IITLAGPTNAIFKAFAMIIDKLEEDISSSM TNSTAASRPPVTLRLVVPASQCGSLIGK GGCKIKEYTREYRGFRSKVAGDMLPNLT ERAVTIAGIPQSIIECVKQICVVMLETLSQ SPPKGV TIPYRPKPSSSPVILQGGQPYTI QGQYAIQPDLT KLHQLAMQQSHFPM HGNTGIQWHLNPASPRGSKAYWAGLAD ASAQTTSSWNSPFPNGFDWAGIIGAFKG AKINEIRQMSGAQIKIANPVEGSTDRQ VTUTGSAASISPGVNIINVRLSSEVTGGM GSS
7837	15888	A	8457	3	376	HSSGLGGGGVMLVHDIRRNESHLDIFRE SAPGALREETLQRSWETKPGLLVGVP MVKGLHEAHQLYGRLPWSQVLAFAAA VAQDGFNVTHDLARALAEQLPPNMSE FRETFLPFGVRPPLPGS
7838	15889	A	8458	1	1965	
7839	15890	A	8459	4	267	
7840	15891	A	846	33	382	
7841	15892	A	8460	10	464	TGPVAMGRVIRGQRKGAGSVFRAHVKH RKGAARLRAVDFAERHGYIKGIVKDIIH DPGRGAPLAKVVRDPYRFFKRTLFIA AEGITGQFVYCGKKAQLNIGNVLPVGT MPEGTIVCPVISKKVISSANRAVVGVA CGGRISKRLK

						GGGRIDKPILKA
7842	15893	A	8461	5	807	TGPVAMGRVIRGQRKGAGSVFRAHVKH RKGAARLRAVDFAERHGYIKGIVKDIH DPGRGAPLAKVVFRDPYRFKKRTELFIA AEGIHTGQFVYCGKKAQLNIGNVLPVGT MPEGTIVCCLGGEAWKTRGKLARASGN YATVISHNPETKKTRVKLPSGSWKKVISS ANRAVVGWVAGGWPELTNP SLKAGRA YHKYKAK/RQRNCWPRIRGIVAMNPVE HTFGGGQ/HPQHIA SPPTIRRDAP/AGRKV GLIAARRTGRLRGTKTVQEKEN
7843	15894	A	8462	11	349	
7844	15895	A	8463	305	676	RSKSDSAADLPSRRARLSGTGEKASENK GDPVHL*ADGGFVPLEDSL CM*FPAWAS SPSAALSIGLTVQVAGLQGLPWAPWVVP LGSTGRRSSGELEESEAGYLSTSSTDGLL GSFKEGCSSC
7845	15896	A	8464	352	784	
7846	15897	A	8465	3	381	
7847	15898	A	8466	1	233	
7848	15899	A	8467	3	356	
7849	15900	A	8468	2	374	
7850	15901	A	8469	2	482	KFQNALLVRYTKKVPQVSTPTLVEVSRN LGKVGSKCCKHPEAKRMPCAEDYLSVV LNQLCVLHEKTPVSDRVTKCCTESLVNR RPCFSALEVDETYVPKEFNAETFTFHVK HKPKATKEQLKAVMDDFAAFVEKCKKA DDKETCFAEEGKKLVAASQAAL
7851	15902	A	847	21	371	APSPDAMGHFTEEDKATITSLWGKVNVE DAGGETLGRLLVVYPWTQRFFDSFGNLS SASAIMGNPKVKA/HPENFKLLGNVLVT VLAHFGKEFTPEVQASWQKMTGVAS ALSSRYH
7852	15903	A	8470	2	435	
7853	15904	B	8471	73	384	MFLYEYARRHPDYSVVLLRLAKTYETT LEKCCAAADPHECYAKVFDEFKLLVEEP QNLIKQAWRVQIPECAISSLHQESTPSVN SNSCRGLKKPRKSGQOML*
7854	15905	C	8472	11	475	
7855	15906	A	8473	1	608	
7856	15907	A	8474	1	593	AKYICENQDSISSKLKECCEKPLLEKSHC IAEVENDEMPADLPSLAADFVESKDVCCK NYAEAKDVFLGMFLYEYARRHPDYSVV LLLRLAKTYETTLEKCCAAADPHECYAK VFDEFKPLVEEPQNLIKQNCLEFEQLGEY KFQNALLVRYTKKVPQVSTPTLVEVSRN LGKVGSKCCKHPEAKRMPCAEDYLSRG PRTSRMFAKTMLRQRMSSWAC/CLYEY ARRHPDYSVVLLRLAKTYETTLEKCCA AADPHECYAKVFDEFKPLVEEPQNLIKQ NCELEFEQLGEYKFQNALLVRYTKKVPQ VSTPTLVEVSRNLGKVGSKCCKHPEAKR MPCAEDYLSRG

7857	15908	A	8475	1	1428	MKWVTFISLLFLFSSAYSRGVFRDRAHK SEVAHRFKDLGEENFKALVLIAFAQYLQ QCPFEDHVKL VNEVTEFAKTCVADES NCDKSLHTLFGDKLCTVATLRETYGEM ADCCAKQEPERNECFLOHKDDNPNLRL VRPEVDVMCTAFHDNEETFLKKYLYEIA RRHPYFYAPELLFAKRYKAAFTECCQA ADKAACLLPKLDEL RDEGKASSAKQRL KCASLQKFGERAFAKAWAVARLSQRFPK AEFAEVSKLVTDLT KVHTECCHGDLLEC ADDRADLAKYICENQDSISSKLKECCEK P LLEKSHCIAE/HRNLGKVGSKCKHPEA KRMPCAEDYLSVVLNQLCVLHEKTPVS DRVTKCCTESLVNRRPCFSALEVDETYV PKEFNAETFTFHADICTLSEKERQIKKQT ALVELVKHKPKATKEQLKAVMDDFAAF VEKCKADDKETCF AE EGKLV AASQA ALGL
7858	15909	A	8476	1	748	
7859	15910	A	8477	1	1515	
7860	15911	A	8478	1	2931	MKWVTFISLLFLFSSAYSRGVFRRTPLGP ASSLPQSFL LKCLEQVRKIQGDGAALQE KLCATYKLCHPEELVLLGHSLGIPWAPL SSCPSQALQLAGCLSQLHSGFLYQGLL QALEGISPELGPTLDTLQLDVADFATTIW QQMEELGMAPALQPTQGAMP AFASAFQ RRAGGVLVASHLQSFLEVSYRVLRLHLA QPGGGGDAHKSEVAHRFKDLGEENFKA LVLIAFAQYLQCPFEDHVKL VNEVTEF AKTC
7861	15912	B	8479	1	6124	MKWVTFISLLFLFSSAYSRGVFRDRAHK SEVAHRFKDLGEENFKALVLIAFAQYLQ QCPFEDHVKL VNEVTEFAKTCVADES NCDKSLHTLFGDKLCTVATLRETYGEM ADCCAKQEPGRNECFLOHKDDNPNLRL LVRPEVDVMCTAFHDNEETFLKKYLYEIA ARRHPYFYAPELLFAKRYKAAFTECCQ AADKAACLLPKLDEL RDEGKASSAKQR LKASLQKFGERAFAKAWAVARLSQRFP KAEFAEV
7862	15913	A	848	24	474	
7863	15914	A	8480	241	348	
7864	15915	A	8481	2	191	
7865	15916	A	8482	3	370	
7866	15917	A	8483	1	351	
7867	15918	A	8484	44	454	
7868	15919	A	8485	200	408	
7869	15920	A	8486	1	110	
7870	15921	A	8487	48	462	
7871	15922	A	8488	1	721	MHWGVGFASSRPCVVDLSWNQSISFFG WWAGSEEPFSFYGDIIAFPLQDYGGIMA GLGSDPWWKKTL YLTGGALLAAAYLL HELLVIRKQOEIDSKDAILHQFARPNNG VPSLSPFCLKMETYL RMADLPYQNYFGG KLSAQGKMPWIEYNHEKVSGTEFIIDFLE EKLGVNLNKNLGPHERAISRAVTKMVEE HFYALS WRWYHPVPTCPLQKFLQFVRQ LMLFMRTSPSALPGH
7872	15923	A	8489	3	785	
7873	15924	A	849	24	415	
7874	15925	A	8490	5	302	
7875	15926	A	8491	1	2086	
7876	15927	A	8492	3	2011	
7877	15928	A	8493	305	505	

7878	15929	A	8494	3	1588	EEEDYDVYKSEFPTEADLEDFTEAAVDE DDEDEEEGEEVVEDRDYDDYDFKGGDY NEENPTEPGSDGTMSDKEITHDVKAVCS QEAMTGPCRAVMPRWYFDLSKGKCVRF IYGGCGGNRNNFESEDYCMVCKAMIP PTPLPTNDVDVYFETSADDNEHARFQKA KEQLEIRHRNRMDRVKKEWEEAELQAK NLPKAERQTLIQHFQAMVKALEKEAASE KQQLVETHLARVEAMLNDRRRMALEN YLAALQSDPPRPHRILQALRRYVRAENK DRLHTIRHYQHVLAVDPEKAAQMKISQ VMTHLHVIEERRNQSLSLYKVPYVAIQ EIQEEIDELLQEQRADMDQFTASISETPV DVRVSSDESEEIPFHPFHPFPALPENEG SGVGEQDGLIGAEKVINSKNKVDEK HGPLNETLDVKEMIFNAERVGGLVEERE SVGPLREDFSLSSSALIGLLVIAVAIATV IVISLVMRLKRQYGTSHGIVE/VVDPML TPEERHLNKMQRNHYENPTYKYLEQMQ I
7879	15930	B	8495	73	1845	MAATGTAAAAATGRLLLLLVGLTAPA LALAGYIEALAANAGTGAFAEPQIAMF CGKLNMHVNIQTGKWEPTGTGKSCFET KEEVLYQCQEMYPELQITNVMEANQRV SIDNWCRDCKQCKSRFVTPFKCLVGEF VSDVLLVPEKQCFHFKERMEVCENHQH WHTVVKEACTQGMTLYSYGMLLPCG VDQFHGTEYVCCPQTKIGSVSKEEEEED EEEEEEDEEEDYDVYKSEFPTEADLEDF TEAAVDEDEDEDEEEGEEVVEDRDYDDY TFKGGDYNEENPTEPGSDGTMSDKEITH DVKAVCSQEAMTGPCRAVMPRWYFDL SKGKCVRFIYGGCGGNRNNFESEDYCM AVCKAMIPPTPLPTNDVDVYFETSADDN EHARFQKAKEQLEIRHRNRMDRVKKEW EEAELQAKNLPKAERQTLIQHFQAMVK ALEKEAASEKQQLVETHLARVEAMLND RRRMALENYLAALQSDPPRPHRILQALR RYVRAENKDRLHTIRHYQHVLAVDPEK AAQMKSQVMTHLHVIEERRNQILSLYK VPYVAQEIQEEIDELLQEQRADMDQFTA SISEHPCGRPGEL*
7880	15931	B	8496	55	274	MADANKAEVPGATGGDSPHLQPAEPPG EPRREHPAEAEKQQPQHSSSSNGVKME NDESAKEEKSDLKEKSTGX*
7881	15932	A	8497	3	754	FLFFEPHPAEARKQQPQHSSSSNGVKME NDESAKEEKSDLKEKSTGSKKANRFHPY SKDKNSGTGEKKGNRNRVFISNIPYDM KWQAIKDLMREKVGCVTYVELFKDAEG KSRGCGVVEFKDEEFVKKALETMNKYD LSGRRVNIKEDPDGENARRALQRTGTSTF QGSHASDVGSLVNLPPSILNPNIPPEVI SNLQAGRLGSTIFVANLDFKVGWKKLKE VFSIAGTVKAGRYKEDKDQSRGMGT
7882	15933	A	8498	2	346	
7883	15934	A	8499	1	414	AWHEETHKVDLGLPEKKKNKKVVKEPE TRYSVLNDDYFADVSPLRATSPSKSVA HGQAPEMPLVKKKKKKKKVSAALGKE VKRSQSKLRLRNTSP*VMTLRPPQKR*S PKRR*SSQSSRSQL*KGRKRRRGKRGG
7884	15935	A	85	2	526	RGGCDRDGPFSASSPLAMASLTVKAYLL GKEDAVAREIRRFSLCCSTEPEAQAEVAA GPGPCERLLIRVAALFPAVRPGGFQAHY RDEDGDLVAFSSDEELTMAMSYVKDDIF RIYIKETNECLA\DRPPDAHERA\PRNM VHLNEICDG*NGPVAGTLYMCSFCPYYY LCTPFNV

7885	15936	A	850	24	432	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFDFSFGNLLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLLDLKGT AQLSELHCDKLHVDPENFKLLGNVHFG KEFTPEVQASWQKMTVGVASALSSRYH
7886	15937	A	8500	1	1977	MEVDFKIRKVGQWTTITLQEHVSVLLFIE ETHPENKPTSTAVEESHISRDTVMVNFQ COLDWSKGYLEAYLTKINSICSHRFLD GSVTCHDETGSSRDARDTVGTGVRVND ESVEQLGLRRTMWLGICRGAAAMAVST VTAFAGRPRGRSRNPRGWAGDSKWT GSRRSWLSRGGGEISPTGMITKTHFVYL GLPEKKKKKRVVKEPETRYSVLNDDY FADVSPLRATSPS*DV AHGQAPEMPLVK KKKKKKKGVSTLCEEHVEPITLPRRT EKSPSLRKQVFGHLEFLARGKRKNKSPL AMSHASGVKTSQDPRQGEETR VGKK\ SKKHKKKKGGPGHSLPVQDPWFCEA REARDVGDTCVSGKKDEEQAALGQKRK RKSPREHNGKVKKKKKIHQEGDALPGH SKPSRSMESSPRKSGSKKPKVKEAPEYIP ISDDPKASAKKKMKSKKKEQPVIEPA LKRKKKKKRKESGVAGDPWKEVVPSE MDFAVGELRETDTDLEVVLKKNMDE AHIDQVRRKALQEEIDRESGKTEASETR KWTGTQFGQWDTAGFENEDQKLKFLRL MGGFKNLSPSFRPASTIARPNMALGKK AADSLQQNLQRDYDRAMS WKYSRGAG LGFSTAPNKIFYIDRNASKSVKLED
7887	15938	A	8501	2	376	TAGFLLPQGLPCKYHLMYGSMLMPNVW RRTTREP KPLGDAEPNTRSLMWEVKRS SSGPWVFKSNIACHIPFIRITSTSSAYD/W PFTHSF**FSGIIPCPHGCHQPFSDMVT FPLCQLPAHLH
7888	15939	A	8502	2	956	
7889	15940	A	851	323	737	
7890	15941	A	852	24	589	
7891	15942	A	853	100	684	
7892	15943	A	854	135	851	APSPDAMGHFTEEDKATITSLWCKVNV EDAGGETLGRLLVVYPWTQRFDFSFGNL SSASAIMGNPKVKAYGKKVLTSLGDAI KHLDDLKGTFAQA*SELHCDKLHVD ENFKLLGKCAGDPFLAIPFSAKEFTPGG CRLPGQKD*LGVGQCPGPPDTTEAQLP MNAELFKDMALFLQAITNNKSISAKRSN FKLLGNVLTVLAIHFGKEFTPEVQASW QKMTVGVASALSSRYH
7893	15944	A	855	40	505	QPQTVSILHLTPEEKSAVTALWGKVNLD EVDVEALGRLLVVYPWTQRLLESFGNL STPDVAVMGNPKVKAHGKKVLGAFSDG LAHLNLLKGTATLSELHCDKLHVDPEN FRLLGQRAWSVLAGPITFGKEFTPPVAG LPIRKL VAGVANALAHK
7894	15945	A	856	41	536	APSPRRPWGHFTEEDKATITSLWGKVN VEDAGGETLGRLLVVYPWTQRFDFS GNLSSASAIMGNPKVKAHGKKVLTSL GDA\TKHLDDLKGTFAQA*SELHCDKL HVDPENFKLLGNVLTVLAIIPFSAKEF TPEGCRASWAERWVTWSWPVPCSSRYH
7895	15946	A	857	241	435	
7896	15947	A	858	243	449	
7897	15948	C	859	275	397	MLCWKLGVHHYSGNNIELGTAMRENT YRVLHTGLFIDPG*
7898	15949	A	86	285	326	NLPKILGHTQKRLQSTRSWKRMMLSLN LQHIYNPVPFVGTIPDHLDFVS*IVIRGP VSSDANYIQYDL*NPNSLSV
7899	15950	A	860	2	424	

7900	15951	A	861	73	608	SVMTPVAPTLKAASKSDSSGPHRLREN PWCLSPADKTNVKA AWGKVG AHAGEY GAEAL\ERMFLSFPTTKTYFPHFDSLHGS AQV*GATGK\KVADAL\TNAVAHVGR LPNALSGPEATLHAHK\LRGGPGSTFKLL \SHLPCLGEPWAAHLPGRVSPGLGGCKAS LGTNFLGFLKQPC
7901	15952	A	862	7	330	
7902	15953	A	863	2	379	
7903	15954	A	864	3	722	HERGSVSCFNSGWTDIRGHLFQPPTAL RFPLRLQPPGPSSRSPASGTCQHQLWL APSCQPTMSSQIRQNYSTDVEAAVNSLV NLYLQASYTYLSLGFYFDRDDVALEGVS HFFRELAEEVKREGERLL\RMQTQRGGR ALFQDIKKPAEDEWGKTPDAMKAAMAL EKKLNQALLDLHALGSARTDPHLCDFLE THFLDEEVKLIKMGDHLTNLHRLGGPE AGLGEYLFERLTLKHD
7904	15955	A	865	40	264	
7905	15956	A	866	3	1231	
7906	15957	A	867	3	496	
7907	15958	A	868	1121	1442	
7908	15959	A	869	2380	2714	EETEGQARWLTPIPTLWEAEAGGSPEV GSSRPA*PPLSAFLYPAFFLRSARFL
7909	15960	A	87	133	392	LITIYYIPENCQPGQHSETSSL/LKKIKKLA GCGGTHL*SQLLGRLRREDYLSPPGGQICS EP*SYHCTPAWVTGQDPASKKKKKKKK R
7910	15961	A	870	3260	3533	
7911	15962	A	871	6330	6802	RSKGRAKIKSRRAGQVQWLMFVPALW EAKAGGSPEARSL*PAWPIW*NPALHSSL /V**SKALSQKQKKQKKNHGDGQHDETV SLLKIQKSAG AHL*SQLLREAEAGELLEP RRQTLQ*AEILPLHSGLGDKSKTPSQKKK KKRSQGVGVREPQGP
7912	15963	A	872	1	500	
7913	15964	A	873	63	375	
7914	15965	A	874	27	374	
7915	15966	A	875	1	801	
7916	15967	A	876	1286	1388	
7917	15968	A	877	1	1056	
7918	15969	A	878	651	1467	
7919	15970	A	879	3	414	
7920	15971	A	88	2	359	EVLRMAGTGLVAVEVVVDALPDFEEGY EGPGGREAAAALVEDETRRYRPTMNYL SYLTSPDYSAFETDILNNDSERLAARQP I*LLTMKLYLSSPSCGHYFVLLHVYNC LSLYFPSP
7921	15972	A	880	164	412	
7922	15973	A	881	29	489	
7923	15974	A	882	44	847	IKENSFIWIRASTITYLKGETIGTEPEGK EGECASTGL\VNPRDFDFPSKIVSFPKIPV*T SLHITPLAIVCPFQNIWSLHGKGQRGK QNINKRETKNKNTTLFREPKQNPQIPFF* TTQGHAEVKSLSVPL*ITGRKA\STQSL* QEFSTLEASEHAEDG/ALLRVPLPSWRA PSGVGTVKSRSFHVPRDHQPTTHWWP WWSMAGRQRPSTLSHFLSWMTSCLGP SHFRRELAFWKPTFPIHHRTRQSAHILVP LVFKGHFQOTL
7924	15975	A	883	40	431	
7925	15976	A	884	122	341	
7926	15977	A	885	23	419	

7927	15978	A	886	1	598	LARNPGSTHASGGILLGRQCWVLFMAP KKAKKRAGGAN\$NVFSMFEQTQIQEFK EAFIMDQNRDGFIDKNDLRDTFACPW RKLNVKNEEIDEM\$KEAPGINFTVFLT MFWGRNLKGADPEGKPF\$NRISKVFDPE GKGVAEGLDYVREMLNNAGRRGFPRKE VDQMFAAFPP\$DVTGNLDYKNLVHIITH GEEKD
7928	15979	A	887	174	452	
7929	15980	C	888	60	245	
7930	15981	A	889	1878	2295	SFSPA WPSRW CASSSWCTDCLVPSTCAA LQHPVVFLDKGNHFLIFFYFFFFVILYTSS SHEVED*PCVMFSKIKWYLLE/VRILVV AYRLSFCKERKKTIKLCQIILLCLAARTW LPCLSLSLPPFLSFSLCMDFFEEKK
7931	15982	A	89	69	342	VGNMSGTNLDGNDEFDEQLRMLELYGD GKDGDTLTDAGGEPDSLGGYSTDTPTE WDLDI*AWFFMISEYFLFTYLVQFMAFL LYCGFMFL
7932	15983	A	890	3218	3469	
7933	15984	A	891	618	1236	
7934	15985	A	892	12	138	
7935	15986	A	893	1	1002	
7936	15987	A	894	66	293	RLLFRFFCPTGCSLDVVL\$S*GCGFL*\$ LHTGFMPSP\$FWPGDSL\$VQIVTNFSWR FSSAVAFSSASGSFPQGS
7937	15988	A	895	2202	2335	
7938	15989	A	896	343	906	
7939	15990	A	897	1455	1604	
7940	15991	A	898	370	807	
7941	15992	A	899	1	1548	
7942	15993	A	9	1130	1377	ASHLRSGVRDQPEQHGETPTLALKIQKSP GCGGRHL*\$QLPGR\$RQENHLNLGGGG CGELRSHHCIPAWVTETLTKKKKKRR
7943	15994	A	90	144	2205	DRRERCHPFKRALMP/LRPAEPRPAFPIH HPLLQDANEAPG/CWAEAVQGCP/AE DPPCVSRAAPGGSVPPFC/PGRLL*GWGG PRGKGDP\$GLADSGPPCELRFEEESRPPR VVGES\$PAEKLAYPP\$GPLCFF*\$FSEF/PE L*\$TKSPS*\$EMTNHMLHSGGGGSWPGSPT SPGPPPGGSLPRAAALPPKTPGQTRAPAG AGCPHADLAMP\$GPTPGSPPVAPTS\$VA DCSSQNV*\$HPRVPEPTQAATPVQFPKNVI TSPGCQSPPKQP/APVPVPRMYN/MPRVT EPAQAATPESLGHVPELRSTQTVATASP GHLTPMKGTLSAREIPEVGTGPPWCPV P\$P\$SPLPLCPAPRGSAGGLTLPLRASQTS GSTFL\$ISFPFCKLTSPFPG\$VQGT\$PAGG RSVCTVVQGVV\$SERGGTSV\$Q\$LLHLPVP LCPPLSKQ\$VMAPIAGL/PIQCSGPPVQW GDPRPTP*\$CIQPGQVYCCD/VLPALLCR FPGAAQPRTPHEWACPALAECLPCALRQ VPRAGQPG*\$TMCGAGTGPCWKG\$GQK EAGGRCEKLP\$PPLNTALPAPAGPCS\$QL PLSHGW\$PLAPP\$PH*\$DSRQGGPD/ASPS QPWLRKPPNPTMGLR\$KPRK*\$LLP\$PKR LRKPKAASLPVRHPKASLGCS*\$EGLIWA LP*\$GWPCR\$W\$PLGALGGTWQPPRHPGP VLISRA*\$GLQ\$QPLTK
7944	15995	A	900	3	127	VLCQFSKGMLPVFAQSV*\$YWLWVRYVP SIP\$LLRVFSMKGK

7945	15996	B	901	1	1926	MFSDSLTPMHKERVTLTKREGHVVGFM GDGINDAPALRAADIGISVDGAVDIARE AADIILLEKSLMVLEEGVIEGRRTFANML KYIKMTASSNFGNVFSLVASAFLPFLP MLPLHLLIQNLLYDVSQVAIPFDNVDD QIQKPQRWNPADLGRFMIFFGPISSIFDIL TFCLMWWVFHANTPETQTLFQSGWVFW GLLSQTLIVHMIRTRRVPFIQSCASWPLM IMTVIVMIVGIALPFSPLASYLQALPLS YFPWLVAIAGLATNSDRFDLNLHVFRQ TGNFNARTCREGGVVFGEFGFASGFDDR FYVIQRLTCLCSDVCRYFARFRIYRDLTG GDDHIAQINXLYVRPIAAGPAPGTFRWL HSRRAMLLTRADMEDRERFLNARDTLR ALLDNNIVPVINENDAVATAEIKVGDND NLSALAAIAGADKLLLLTDQKGLYTAD PRSNPQAEIKDVYGIDDALRAIAGDSVS GLGTGGMSTKLQAADVACRAGIDTHIAA GSKPGVIGDVMEGISVGTLFHAQATPLE NRKRWIFGAPPAGEITVDEGATAAILERG SSLLPKGIKSVTGNFSRGEVIRICNLEGRD IAHGVSRYNSDALRRIAGHHSQEIDAILG YEYGPVAVTVMHDYR*
7946	15997	A	902	1	1602	
7947	15998	A	903	1	972	
7948	15999	A	904	280	358	
7949	16000	A	905	141	152	QCPPQPRPPGRCPTPQSGHTGCSTGG*GL NPLYYNLCDRSGAWGIVLEAVAGAGIVT TFVLTHILVASLPFVQDTKKRSLGTQLR GRCHHTAGTMGSC
7950	16001	A	906	177	247	
7951	16002	A	907	574	737	
7952	16003	A	908	221	576	GVGGDTHDTHPNTGREGGPPSRSGAHVA GPARGRRSLESPLPGARSSGSPNPASP SPPLTQSHT*GFPKRPESSCRLSRGVAAW WLWAEYIVFKPAGSSWHCPSPWLLAVA RGRMMS
7953	16004	A	909	1	157	TKTWTLKKHFVGYPTNSDFELKTAELPP LKN/GRVAAKRLKEGDTMMGQQVAK
7954	16005	A	91	122	874	SPLLGGLRQKIFFNWEAGGSIKPKLTPSP PARQGQGGPFSSSSPSSSPES*LFPALRT PSRQGGSAIPASGLSTPACVPSGSTRNL FHAPHVGRVSLLLPAS*KAAGPSKKGPG QVNPA*FRKPGVGI*RSVGPRQLPLE*LH ARKNRAGPVPLPGLGKEGPSLQGPKRTQ LASLLMEGPPTHPTIHDGTTAQPELWPC RGPQMOSWGSGLPHTFGPRQPHPPHPS RHRSDSESSLLQASAHPGA
7955	16006	A	910	3	484	VRLREDDRRGPSLGTCHKSDPGRPAAQS QPPSPGSGTFGLLSFRMVRTKTWTLKKH FVGYPNTSDFELKTAELPPLKNGEVLL ALFLTVDPYMRVVESKNVALPKGTVLA SPGWTHSISDGKDLEKLLTEWPDTPLS LALATVGMPLATAYFGLLE
7956	16007	A	911	1	1147	MLLCQKAPSLKTTYNHPPAADSAGTAL NLETTVKQTRTQLEYNNVGTDLSPPEK SFNYPLLSSSGDQFEIQLNQQLWSLIPNN DVRRLVSHVIRTLKTDCTETHLQLACAK LISRTGLLMKLLSEQQELRTVSMATAWKP RMNRKSRSRMRQSHFASHAGRWWHNH STLQPPSPKLQMAELSEARRRSFRMVRT KTWTLKKHFVGYPTNSDFELKTAELPPL KNGGLEFLIAYGMLYFVEVLLEALFTV DPYMRVAAKRLKEGDTMMGQQVAKV VESKNVALPKGTVLASPGWTHSISDG KDLEKLLTEWPDTPLSLALGTVGMPLG TAYFGLLEICGVKGETVMVNAAGAV GSVVGQIAKLKGCKVVGAVGSDEK

7957	16008	A	912	214	540	
7958	16009	A	913	495	684	
7959	16010	A	914	1	1911	
7960	16011	A	915	3	1381	KTPFVGYQHQRPKVDKTTKMGRNQSRK AENSKNQSTSSPPKDRSSLPATEQSWTE NDFDELTEVGFRRSAITNFSELKEHVLTR RKEAKNLEKRLDEWLTRINSVEKTLNDL MELKTMAQELRDARTSFNS*FNQVEKRI SVIEDQIDEIKQDDKAAETCNWRWVSES LRQLRASVDAFHARASHYNAGECLHQL AALNSRLNCAQEMARRDSIGEVPPVPW RTVVGSGIAGEAKLDHLRLVSLIGREVN KENSPAATRWFQAGALAGGQIVLQA AKPNAHGQPVVATRNLNPAGIVAVLK QRPRLVAAAVQAFYLRDPIDLRACRVFK TFLPETRIMTSYYAIEWSLWTLVDVLHA ENSESAHMSHNSYDPPSDVARHLTHLPM SPIPDYIARFRYRHRSRVRLTARKLSPAF MRCSSAIQRYSTMLERGFNGGYCRSTTV RVVTEATRMLSF
7961	16012	A	916	1	1191	
7962	16013	A	917	1	227	
7963	16014	A	918	1	392	
7964	16015	A	919	157	388	
7965	16016	A	92	27	319	IINTSISLWFLGLSSIIHHYQERFL*FN*FG SYMVFIEIFFGISSAFFVC*WPK/Y/LLYFR YCRCFLILLLLSIFE/DLCYLV*IFMFFL FFYMFLCV
7966	16017	A	920	451	593	
7967	16018	A	921	467	1038	
7968	16019	A	922	233	345	
7969	16020	A	923	1	1386	
7970	16021	A	924	1	1254	
7971	16022	A	925	36	695	
7972	16023	B	926	52	554	MGKEKTHINIVVIGHVDGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFKYA WVLDKLKAERERGITIDISLWKFETSKY YVTHIDAPGHRDFIKNMILNHPGQISAGY APVLDCHTAHIACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPI*
7973	16024	A	927	63	1545	PLKAKMGKEKTHINIVVIGHVDGKST TTGHLIYKCGGIDKRTIEKFEKEAAEM GKGSFKYA*VLDKLKAERERGITIDISL WKFETSKYYYVD*SLIAPGHRDFYSKT* FTGTISRDLVWGAPFLGG/CLP*LFAAG VWWNLKAGISQEWGRTREHALLGLHTG VWKQTKLFGVNKNWIST*GHPTAQKKIL KEIVKGKSALT LRKIGYNPDTSSILCPISG WNGDNMLEPSA\NMPWFQGDGKVTRK DGNASGTTLEALDCILPPTPTDKPLGL PLQDVYKIGGIGTVPVGRVETGVLPKGM VVTFGPVNVTTEVKSVMHHEALGEAL PGDNVGFNVKNVSVKDVRRGNVAGDS KNDPPMEAAGFPAQVIILNHPGQISAGY APVLDCHTAHIACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPMCV ESFSDYPPLGCFVRDMRQTVAVGVKA VDKKAAGAGKVTKSAQKAQKAK
7974	16025	A	928	2	246	
7975	16026	A	929	318	420	
7976	16027	A	93	264	664	IRLAFCGIFQAFSICNSNIWLLPEIPLLG IYP*E*NTKTCTQMFTAALFIIS*KVEISQ MPIINEKINKLWYIHMTCHTKNKVLIRD T*MNLENIKLNERNRGQTKKKKAIYCLSL FM*YVQNRQIHTDEK
7977	16028	A	930	205	400	

7978	16029	A	931	234	425	ICKWIILPCGLAGSYKIAKWVSGFTLLLT HVMGAAWV*LSLFGYTILF*FPKMSSFL TMKKDIF
7979	16030	A	932	405	862	
7980	16031	A	933	2	412	
7981	16032	A	934	110	431	
7982	16033	B	935	754	1544	MREIVHIQAGQCGNQIGAKFWEPWKASS IELSQCRNSPSKVFRSKEHDGLPVTPTTR R*
7983	16034	A	936	1	451	
7984	16035	A	937	1	258	
7985	16036	A	938	3	1906	
7986	16037	A	939	1	585	ECLCVSTAVRIRHEKTMTELLRGGSFE FKDMRVPSALVTLHMLLCSIPLSGRDLS DEQKIQNDIIDILLTFTQGVNEKLITSEET LANNTWSLMLKEVLSSILKVPEGFFSGLI LSELPLPLPMQTTQVSLPYNMHLINDC SNTF*KASDSVKKQKPSSPFLPKRHKITG *GGDKTETSWSLRKYGGKNFK
7987	16038	A	94	2	605	SHGTPGRPTRPVEFFSGGSAGSFSPWFPK KAKKRAGGADSNVFSMFEQTQMQUEFK EAFSIMDQNRDGFIDKNDLRDTFAALGE VNVKNEEIDEMUKEA\PGPLNFTVFLTN VWGENLREADPEETILNAFKVFDPR*RP KGCMAKYVVS GKMLTHAGRRRFSKEA EVDQMFAGLPPLT*LGNDYKNLVHIIT HGEEKD
7988	16039	A	940	625	2115	
7989	16040	A	941	180	359	GSLQRDRWPTSSWRTGRQGSSLLRPRWI SFLAQLWRV*RIPAGTFVIRIEDGNRRRA FI
7990	16041	A	942	1286	2188	
7991	16042	A	943	1	2537	
7992	16043	A	944	2	437	
7993	16044	A	945	298	581	GARAEARAGSGQGAGLVSSPVRWRG WSDKGAERP GGPLSPLREVSRAGPSG/H AARGQQPGRPRFPFPPGPRPPRRRCPCTRA RPGAAGGGPCL
7994	16045	A	946	377	639	
7995	16046	A	947	1279	2253	
7996	16047	A	948	268	369	
7997	16048	A	949	15	440	
7998	16049	A	95	1	1254	
7999	16050	A	950	118	375	VAVVQIIFLPVFIAEKYKDLVPDNSKTAD NATKNAEPLINLDVNNPDFKAGVMALA NLLQIQRHDDYLVMK\AIRILVQERLTQ D
8000	16051	A	951	1	969	AATVLTITIGEAPSRSDSAPARPLAASPV PAPPAPPRFFSPGRGPGDQSEKRWTFMR RKLTVSLDYHNPAGFNCKDETEFRNFIV WLEDQKIRHYKIEDRGVNLRNHSSDWP VFEKYFKRC*TCPFKIQDRQESYLTGFFG LAVRLEYGDNAEKYKDLVPDNSKTA*Q LQKIAEPLINLDVNNPDFKAGVVGF* TWLQIQRHDDGLPGQMLKANS GFVWQE RLDHQGCQFA*GQIKQKRGLPVALDKHI LGFDTGDAVLNEAAQILRLHIEELRELQ TKINEAIVAVQAIADPKTDHRLGKSLED EHLRTSASHLL
8001	16052	A	952	1258	1429	
8002	16053	A	953	189	403	

8003	16054	A	954	51	1702	GLPRCASVQPVCEYQRRWKRWLWDIT WEKWKQMDTVQKSIYRNILAEKYRNLVL LDGKLAAGAKTSRVEQQDISKED*SQRL EMEELAKRKSVP EEIWKSRGQFKNQQLN KENNLGQEIATCTKIPTKRKDIESNEF/RE KFYCKINTCC/MNR*ILWKRIVINMVHVE RCSNKTQI*LYKESMMEKKKPKCYSECG RTFRGHITLVQHQTTHCGERPCKCTEGRK GFNQSSHLRNNQRKTLSGEKPYKCSECG KAFSYCLVLNQHQRIHSGEKP YEGTECG KTFIQS\SYLTQHQR/TSHTGEKPYTCLC GRLFSQNTHTLTHQRIHTGEKPYECNEC GRSFSQTAHLTQHQRMYTGEKLYECNE CEKAFHDHSALIQHHIVHTAEKPYDINT GKTFSYCSDLIQHQRMTGEKPYKCNEC GNAFSDCSSLIQHQRTHTGEEPYECKQC GKAFSRSTYLTQHQRSHAGEKQYKCNE CEKTFSLSFLTQHMRVQTGEKPYKYNE YGKAFSDCSGHFQRTHTGEKPC ECNDC GKPF SFC SALIQHKRIHTRKKP
8004	16055	A	955	2	270	REEKEWP PHTQPWYPEGCFKDQGHYEE GSVIKENCNS*WTAQNY SQFWGMTLED GFKFRLGTLPPSPMLLSMNEMTVSVPSD SRMCMYL
8005	16056	A	956	1	999	
8006	16057	A	957	1	1518	VHCSEFPGRPPRPRTRGRKVEAIPVFOR MWTGYKILIFS YLTTEIWM EKQYLSQRE VDLEAYFTRNHTFLQGT HFKRAIFQIGQ YCRNFGCCEDRDDGCVTEFYAANALCY CDKFC DRENSDCCPDYKSFCREEKEWPP HTQPWYPEGCFKDQGHYEEG SVIKENC NSCTCSGQWKC SQHVCLVRPEALIEQV NKG DYGWTAQNY SQFWGMTLEDGFKF RLGTLPPSLMLLSMNEMTASLPATIDL EFFVASYKWP GWT HGPLDQKNCAASW AFSTASVAADRIA IQSKGRYTANLSPQNL ISCCA KNRHGCNSG SIDRAWWYLRKRK LVSHACYPLFKDQ NATNNGCAMASRSD GRGKRHATKPCPN NVEKSNRIYQCSPY RVSSNETEIMKEIMQNGPVQAIMQVHED FFHYKTGIYRHVTSTNKESEKYRKLQTH AVKLTGWGTLRGAQ GQKEKFWIAANS WGKSWGNGYFRILRGVNESDIEKLIIAA WGQLTSSDEP
8007	16058	A	958	316	411	
8008	16059	A	959	314	390	
8009	16060	B	96	52	554	MGKEKTHINIVVIGHVDSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFYA WVLDKLKAERERGITIDISLWK FETSKY YVTIIDAPGHRDFIKNMILNHPGQISAGY APVLDCHTAHIA CKFAELKEKIDRRSGK KLEDGP KFLKSGDAAIVDMVPGKPI*
8010	16061	A	960	112	1154	SCGLGHRKTFSFVSLPARNETQPKACRE QNMEGDFSVC RNC*RHVV SANFTLHEA YCLRFLVLCPECEEPVPKETMEEHCKLE HQQVAGCTMCQQIMHKSSLEFHKANECQ ERPVECKFCKLDMQLSKLELHESYCGSR TELCQCGGQFIMHRMLAQRRDVCRSEQ AQLGKGERISAPER EYCHYCNQMIPEN KYFHMHGKCCPDSEFKKHFPVGNPEILP SSLPSQAAENQTSTMEKDV RPKTR SINRF PLHSESSSKAPRSKNKTL DPLLMSEPKP RTSSPRGDKAAYDILRRCSQC GILLPLPIL NQHQEKCRWLASSKRKTSEKFQLDLEK ERY YKFKRFHF
8011	16062	A	961	103	538	
8012	16063	A	962	1	405	
8013	16064	C	963	334	471	

8014	16065	A	964	1	1137	
8015	16066	A	965	1	451	GDRPFRV*DPRAGQAATFWTDPSLS*SL LLGVMFPAAPSPRTPGTGPRRGPLAGLG PGSTPRTASRMGLPLGSAVSSPVLFSPPG RRSSLISRGTPTRMPLPHHSITESVNYDAK TIGSSLPVKVMEALTLAEVDDQLTNINE GGWACL V
8016	16067	A	966	301	1867	
8017	16068	A	967	57	383	GWLAHTANERPVRFCFWLEGFGLENIRA PTLNF*QIQQSLAIFVEPIKTILLPFCFFRIF STRVRICTYSSHSFPGPGAGLLHFCSSSL VRFKISFGDTVAVAPVPDF
8018	16069	A	968	507	904	GKRAGECWRRSLRPRGPRGETRAASPSS ARPSLALASAPRPKSGPRPRQGPRRLW PRGLKGQVCARGPGRGGPGGVGGRRSA SARAPRVPGDQPPPPAPSS*ED/WT*EIG RLSSHAPLAVLHTRSALLNS
8019	16070	A	969	379	858	
8020	16071	A	97	1	1299	
8021	16072	A	970	259	483	
8022	16073	A	971	175	588	
8023	16074	A	972	1	383	
8024	16075	A	973	79	445	
8025	16076	A	974	1163	1401	
8026	16077	A	975	80	406	
8027	16078	C	976	70	240	MITGTSQADCAVLIVAAGVGEFXAGISK NGQTRDMRKXLRKSALTTLRKLATTPT Q*
8028	16079	B	977	68	490	MGKEKTHINIVVIGHVDSGKSTTTGHLIY KCGGIDKRTIEKFEKEAAEMGKGSFKYA WVLDKLKAERERGITIDISLWKFETSKY YVTIIDAPGHRDFIKNMITGTSQADCAVL IVAAGVGEFEAGISKNGQTREHALLA*
8029	16080	A	978	261	406	
8030	16081	A	979	1	678	
8031	16082	A	98	36	697	KLPLKAKMGKEKTHINIVVIGHVDSGKS TTTGHLIYKCGGIDKRTIEKFEKEAAEMG KGSFKYAWVLDKLKAERERGITIDISLW KFETSKYYVTIIDAPGHRDFIKNMITGTS QADCAVLIVAAGVGEFEAGISKNGQTRE HALLAYTLGVKQLIVGVNKMMDSTGAIL TGDFPSLEPRHVSTWLQHVVTIPTRNWH KCYCVGVVANFLNVSADFLNNF
8032	16083	A	980	181	340	
8033	16084	A	981	1	375	

8034	16085	A	982	1	2583	MVNFTVDQIRAIMDKKANIRNMSVIAHV DHGKSTLTDSLVCAGIIASARAGETRFT DTRKDEQERCIPIKVNAISLFYELASEND LNFIQQSKDGAGFLINLIDSPGHVDFSSA VTAALRVTMGALVVVDCVSGVCVQTET VLROAIAERIKPVLMMNKMMDRALLELO LEPEELYQTFQRIVENVNVIISTYGEGESG PMGNIMIDPVLGTVGFGSGLHGWAFTLK QFAEMYVAKFAAKGEGQLGPAERAKK VEDMMKKLWGDYFDPANGKFSKPAT SPEGKKLPRTFCQLLDPIFKVFDAMNF KKEETAKLIEKLDIKLDSKDKKEGKPLL KAVMRRWLPAGDALLQMITIHLPSVTA QKYRCELLYEGPPDDEAAMGIKSCDPKG PLMMYISKMVPTSDKGRFYAFGRVFSGL VSTGLKVRJMGPNYTPGKKEDLYLKPIQ RTILMMGRYVEPIEDVPCGNIVGLVGVD QFLVKTGTITTFEHAHNMRVMKFSVSPV VRVAVEAKNPADLPKLVEGLKRLAKSD PMVQCHIESGEHIIAGAGELHLEICLKD EEDHACIPIKSDPVVSYRETVSESNVL CLSKSPNKHNRLYMKARPPDGLAEDID KGEVSARQELQQRARYLAEKYEWDAE ARKIWCFGPDGTGPNILTDITKGVQYLN EIKDSVVAGFQWATKEGALCEENMRGV RFDVHDVTLHADAIHRGGGQIIPARRC LYASVLTAPRLMEPIYLVEIQCPQVVG GIYGVNLNRKRGHVFESQVAGTPMFVV KAYLPVNESFGFTADLRSNTGGQAFQPC VFDHWQILPGDPFDNSSRPSQVVAETRK RKGLKEGIPALDNFLDKL
8035	16086	A	983	1326	1498	
8036	16087	A	984	60	966	RRRNSDGNACQPATHLLLISARFITGHGQ KLKSELKKTQVIMLNIQKVRIPTRDGY NEKDILSTGKNVEKLELSNIAGYPSNIEK KEYQEQSLSCCSERKDANPKSVVCSFF MQEQCTKGEKRFLIPGTLSDRHLRYFG ILPTVSNAAVVKEVPTVSNAAVVTEAPT GSNAAVVTEAPTGSNAARVMEVPTGSN AAVVTEVPTGSNAAVVTEAPTGSNAAV VKEAPTGSNAARVMEVPTGSNAAVVKE APTGSNAARVMEVPTGSNAAVVKEVPT GSNAAVVKEVPTGVTLRWSRKRPRE
8037	16088	A	985	1393	1625	
8038	16089	A	986	358	475	
8039	16090	A	987	232	329	
8040	16091	A	988	127	461	
8041	16092	A	989	562	897	
8042	16093	A	99	62	1548	PLKAKMGKEKTHINIVVIGHVDSGKST TTIGHLIYKCGGNDKRTIEKFEKEAAEM GKGSFKYAWVLDKLKAERIERGITNDISL WKFETISKYYVD*SLIAPGHQETFIQKH DLQGTSQGLAWFGGPPFWGGSPLIVAA GVGEF*SLVSPKNGADPTKHALLGLHT GVWKQTKLFGVNKNWIST*/EPPYSPEED IEGNC*GKVSTYIKKIGYNPDTSILCPIS GWNGDNMLEPSPNMPWFQGDGKVTR KDGNASGTTLEALDCILPPTRPDKPLG LPLQDVYKIGGIGTVPVGRVETGVLKPG MVVTFGPVNVTEVKSVEMHHEALGEA LPGDNVGFNVKNVSVKDVRRGNVAGDS KNDPPMEAAGFPAQVILNHPGQISAGY APVLDCHTAHIAACKFAELKEKIDRRSGK KLEDGPKFLKSGDAAIVDMVPGKPMCV ESFSDYPPLGCFVRDMRQTVAVGVVKA VDKKAAGAGKVTKSAQKAQKAK
8043	16094	A	991	7	494	
8044	16095	A	992	206	357	

8045	16096	A	993	1	101	
8046	16097	A	994	256	407	
8047	16098	A	995	254	432	
8048	16099	A	996	249	400	
8049	16100	A	997	37	465	
8050	16101	C	998	127	216	MRLRKQAEKNVEKKIDKYTEVLKTHGL LV*
8051	16102	A	999	1	1258	LFLPLLEPGERRGLLYRSRPGGAVAILL AAAVS\CAVSQHAPPWTEDCRKSTYPPS RPTYRGAVPWDTIQCLTYHPYKRWHEL MLDKAPV/LQKVIVNSLKNMINTFVPSG KIMQVVDEKL\PGLLGNFP\GPFEEEMKG IGRCLLDIPLGEIISFNIFYELFTICTSIVA EDKKGHLIHGRNMDFGVFLVWNINND TWVITEQLKPLTVNLDFQRNNKTVFKAS SFAGYVGMLT\GFKPGLFSLTLNERFSIN GGYL GILEWILGKKDAMWIGFLTRTVLE NSTSYEEAKNLLTKTKILAPAYFILGGNQ SGEGCVITRDRKESLDVYELDAKQGRW YVVQTNYDRWKHPFLDDRTPAKMCL NRTSQENISFETMYDVLSTKPVLNKLTV YTTLIDVTKGQFETYLRDCPDPCIGW

WHAT IS CLAIMED IS:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 1-8051, a mature protein coding portion of SEQ ID NO: 1-8051, an active domain of SEQ ID NO: 1-8051, and complementary sequences thereof.
2. An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide hybridizes to the polynucleotide of claim 1 under stringent hybridization conditions.
3. An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide has greater than about 90% sequence identity with the polynucleotide of claim 1.
4. The polynucleotide of claim 1 wherein said polynucleotide is DNA.
5. An isolated polynucleotide of claim 1 wherein said polynucleotide comprises the complementary sequences.
6. A vector comprising the polynucleotide of claim 1.
7. An expression vector comprising the polynucleotide of claim 1.
8. A host cell genetically engineered to comprise the polynucleotide of claim 1.
9. A host cell genetically engineered to comprise the polynucleotide of claim 1 operatively associated with a regulatory sequence that modulates expression of the polynucleotide in the host cell.
10. An isolated polypeptide, wherein the polypeptide is selected from the group consisting of:
 - (a) a polypeptide encoded by any one of the polynucleotides of claim 1; and
 - (b) a polypeptide encoded by a polynucleotide hybridizing under stringent conditions with any one of SEQ ID NO: 1-8051.
11. A composition comprising the polypeptide of claim 10 and a carrier.
12. An antibody directed against the polypeptide of claim 10.

13. A method for detecting the polynucleotide of claim 1 in a sample, comprising:
 - a) contacting the sample with a compound that binds to and forms a complex with the polynucleotide of claim 1 for a period sufficient to form the complex; and
 - b) detecting the complex, so that if a complex is detected, the polynucleotide of claim 1 is detected.
14. A method for detecting the polynucleotide of claim 1 in a sample, comprising:
 - a) contacting the sample under stringent hybridization conditions with nucleic acid primers that anneal to the polynucleotide of claim 1 under such conditions;
 - b) amplifying a product comprising at least a portion of the polynucleotide of claim 1; and
 - c) detecting said product and thereby the polynucleotide of claim 1 in the sample.
15. The method of claim 14, wherein the polynucleotide is an RNA molecule and the method further comprises reverse transcribing an annealed RNA molecule into a cDNA polynucleotide.
16. A method for detecting the polypeptide of claim 10 in a sample, comprising:
 - a) contacting the sample with a compound that binds to and forms a complex with the polypeptide under conditions and for a period sufficient to form the complex; and
 - b) detecting formation of the complex, so that if a complex formation is detected, the polypeptide of claim 10 is detected.
17. A method for identifying a compound that binds to the polypeptide of claim 10, comprising:
 - a) contacting the compound with the polypeptide of claim 10 under conditions sufficient to form a polypeptide/compound complex; and
 - b) detecting the complex, so that if the polypeptide/compound complex is detected, a compound that binds to the polypeptide of claim 10 is identified.
18. A method for identifying a compound that binds to the polypeptide of claim 10, comprising:

a) contacting the compound with the polypeptide of claim 10, in a cell, under conditions sufficient to form a polypeptide/compound complex, wherein the complex drives expression of a reporter gene sequence in the cell; and

b) detecting the complex by detecting reporter gene sequence expression, so that if the polypeptide/compound complex is detected, a compound that binds to the polypeptide of claim 10 is identified.

19. A method of producing the polypeptide of claim 10, comprising,

a) culturing a host cell comprising a polynucleotide sequence selected from the group consisting of a polynucleotide sequence of SEQ ID NO: 1-8051, a mature protein coding portion of SEQ ID NO: 1-8051, an active domain of SEQ ID NO: 1-8051, complementary sequences thereof and a polynucleotide sequence hybridizing under stringent conditions to SEQ ID NO: 1-8051, under conditions sufficient to express the polypeptide in said cell; and

b) isolating the polypeptide from the cell culture or cells of step (a).

20. An isolated polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 8052-16102, the mature protein portion thereof, or the active domain thereof.

21. The polypeptide of claim 20 wherein the polypeptide is provided on a polypeptide array.

22. A collection of polynucleotides, wherein the collection comprises the sequence information of at least one of SEQ ID NO: 1-8051.

23. The collection of claim 22, wherein the collection is provided on a nucleic acid array.

24. The collection of claim 23, wherein the array detects full-matches to any one of the polynucleotides in the collection.

25. The collection of claim 23, wherein the array detects mismatches to any one of the polynucleotides in the collection.

26. The collection of claim 22, wherein the collection is provided in a computer-readable format.

27. A method of treatment comprising administering to a mammalian subject in need thereof a therapeutic amount of a composition comprising a polypeptide of claim 10 or 20 and a pharmaceutically acceptable carrier.

28 A method of treatment comprising administering to a mammalian subject in need thereof a therapeutic amount of a composition comprising an antibody that specifically binds to a polypeptide of claim 10 or 20 and a pharmaceutically acceptable carrier.

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